DÉSR8™

Security Systems

EN

Instruction Manual

Digital Video Recorders

BOSCH

Important Safeguards

1. Read Instructions - All safety and operating instructions should be read before the unit is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the unit and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Cleaning - Unplug the unit from the outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. Water and Moisture - Do not use this unit near water - for example, in a wet basement, near a swimming pool, in an unprotected outdoor installation, or in any area which is classified as a wet location.
8. Accessories - Do not place this unit on an unstable stand, tripod, bracket, or mount. The unit may fall, causing serious injury to a person and serious damage to the unit. Use only with a stand, tripod, bracket, or mount recommended by the manufacturer or sold with the product. Any mounting of the unit should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.
   An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
9. Ventilation - This unit should not be placed in a built-in installation or rack, unless proper ventilation is provided, or the manufacturer's instructions have been adhered to. The equipment must not exceed its maximum operating temperature requirements.
10. Mechanical Loading - Mounting of the equipment in a rack shall be such that a hazardous condition is not achieved due to uneven mechanical loading.
11. Power Sources - This unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply you plan to use, consult your dealer or local power company. For units intended to operate from battery power or other sources, refer to the operating instructions.
12. Grounding or Polarization - This unit may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug. Alternately, this unit may be equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
13. Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
14. Power Lines - An outdoor system should not be located in the vicinity of overhead power lines or other electric light or power circuits or where it can fall into such power lines or circuits. When installing an outdoor system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal. U.S.A. models only - refer to the National Electrical Code Article 820 regarding installation of CATV systems.
15. Overloading - Do not overload outlets and extension cords as this can result in a risk of fire or electric shock.
16. Object and Liquid Entry - Never push objects of any kind into this unit through openings, as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit.

17. Servicing - Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
18. Damage Requiring Service - Unplug the unit from the outlet and refer servicing to qualified service personnel under the following conditions:

a. When the power supply cord or plug is damaged.
b. If liquid has been spilled or objects have fallen into the unit.
c. If the unit has been exposed to water and/or inclement weather (rain, snow, etc.).
d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
e. If the unit has been dropped or the cabinet has been damaged.
f. When the unit exhibits a distinct change in performance--this indicates a need for service.

19. Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
20. Safety Check - Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.
21. Coax Grounding - If an outside cable system is connected to the unit, be sure the cable system is grounded. U.S.A. models only--Section 810 of the National Electrical Code, ANSI/NFPA No.70, provides information with respect to proper grounding of the mount and supporting structure, grounding of the coax to a discharge unit, size of grounding conductors, location of discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
22. Lightning - For added protection of this unit during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the unit due to lightning and power line surges.
23. The safety related fire, shock, and injury aspects of the models have been investigated by Underwriters Laboratories Inc. to UL 1950 and CSA 22.2 No. 950-95. Burglary and theft protection features have not been evaluated by Underwriters Laboratories.

FCC & ICES Information

(U.S.A. and Canadian Models Only)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules and ICES-003 of Industry Canada. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and radiates radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his expense. Intentional or unintentional changes or modifications, not expressly approved by the party responsible for compliance, shall not be made. Any such changes or modifications could void the user's authority to operate the equipment. If necessary, the user should consult the dealer or an experienced radio/television technician for corrective action.
Connections to the USB, Parallel and RS-232 ports should use shielded cabling.

THIS IS A CLASS A PRODUCT. IN A DOMESTIC ENVIRONMENT, THIS PRODUCT MAY CAUSE RADIO INTERFERENCE, IN WHICH CASE, THE USER MAY BE REQUIRED TO TAKE ADEQUATE MEASURES.

The user may find the following booklet, prepared by the Federal Communications Commission, helpful: How to Identify and Resolve Radio-TV Interference Problems. This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

Safety Precautions

CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN!

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with an arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Attention: Installation should be performed by qualified service personnel only in accordance with the National Electrical Code or applicable local codes.

Power Disconnect. Units with or without ON-OFF switches have power supplied to the unit whenever the power cord is inserted into the power source; however, the unit is operational only when the ON-OFF switch is in the ON position. The power cord is the main power disconnect for all units.

WARNING: Electrostatic-sensitive device. Use proper CMOS/MOSFET handling precautions to avoid electrostatic discharge.
NOTE: Grounded wrist straps must be worn and proper ESD safety precautions observed when handling the electrostatic-sensitive printed circuit boards.

Sécurité

ATTENTION

RISQUE D'ÉLECTROCUTION. NE PAS OUVRIR !

ATTENTION : POUR ÉVITER TOUT RISQUE D'ÉLECTROCUTION, NE PAS OUVRIR LE BOÎTIER. IL N'Y A PAS DE PIÈCES REMPLAÇABLES À L'INTÉRIEUR. POUR TOUTE INTERVENTION, S'ADRESSER À UN RÉPARATEUR PROFESSIONNEL COMPÉTENT.

L'éclair fléché dans un triangle équilatéral avertit l'utilisateur de la présence d'une « tension dangereuse » non isolée à l'intérieur de l'appareil et d'une valeur suffisante pour constituer un risque d'électrocution.

Le point d'exclamation contenu dans un triangle équilatéral avertit l'utilisateur de la présence, dans la documentation qui accompagne l'appareil, d'importantes consignes d'utilisation et de maintenance.

Attention : L'installation doit être exclusivement effectuée par un technicien spécialisé conformément à la réglementation du code national de l'électricité des États-Unis (NEC) ou à la réglementation locale.

Coupure de l'alimentation. Les appareils avec ou sans commutateur ON-OFF (marche-arrêt) sont alimentés dès que le cordon d'alimentation est branché à la source d'alimentation ; toutefois, les appareils disposant d'un commutateur de marche-arrêt ne fonctionnent que lorsque celui-ci est sur la position ON (marche). Le cordon d'alimentation est l'organe de coupure principal de l'alimentation pour tous les appareils.

CAUTION: Lithium Battery
Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the battery manufacturer's instructions

Sicherheitshinweise

VORSICHT

ELEKTRISCHE SPANNUNG.
NICHT ÖFFNEN!

VORSICHT: DAS GEHÄUSE ZUR VERMEIDUNG VON ELEKTRISCHEN SCHLÄGEN NICHT ÖFFNEN. DAS GERÄT ENTHÄLT KEINE VOM BENUTZER ZU WARTENDEN TEILE. REPARATUREN NUR VON FACHPERSONAL AUSFÜHREN LASSEN.

Das Blitzsymbol im gleichseitigen Dreieck soll den Benutzer auf nicht isolierte "gefährliche Spannung" im Produkt hinweisen, die ausreichend stark sein kann, um die Gefahr von elektrischen Schlägen für Menschen darzustellen.

Das Ausrufungszeichen im gleichseitigen Dreieck soll den Benutzer auf wichtige Bedienungs- und Wartungsanweisungen in der Dokumentation hinweisen, die dem Gerät beiliegt.

Achtung: Die Installation darf nur von qualifiziertem Wartungspersonal gemäß dem National Electrical Code oder den gültigen örtlichen Vorschriften durchgeführt werden.

Abtrennen der Spannungsversorgung: Die Spannungsversorgung zu Geräten mit und ohne Ein/Aus-Schalter ist hergestellt, wenn das Netzkabel an eine Netzsteckdose angeschlossen ist. Das Gerät ist jedoch nur betriebsbereit, wenn der Ein/Aus-Schalter eingeschaltet ist. Bei allen Geräten erfolgt das Abtrennen der Spannungsversorgung über das Netzkabel.

Precauciones de Seguridad

ATTENZIONE

PERICOLO DI SCOSSA ELETTRICA.
NON APRIRE.

PRECAUCIÓN: PARA REDUCIR EL RIESGO DE DESCARGA ELÉCTRICA, NO ABRA LAS TAPAS. EN EL INTERIOR NO HAY NINGÚN COMPONENTE REPARABLE POR EL USUARIO. LAS REPARACIONES DEBE REALIZARLAS PERSONAL CUALIFICADO.

El símbolo de flecha en forma de rayo situado dentro de un triángulo equilátero pretende alertar al usuario de la presencia de "voltaje peligroso" sin aislamiento dentro de la caja del producto, el cual podría resultar de una magnitud suficiente como para presentar un riesgo de descarga eléctrica para las personas.

El punto de exclamación dentro de un triángulo equilátero pretende alertar al usuario de la existencia de instrucciones de funcionamiento y mantenimiento (reparación) en la documentación suministrada con el aparato.

Atención: La instalación debe realizarla personal cualificado en cumplimiento estricto del código eléctrico nacional (en el caso de los EE.UU.) o de los códigos locales aplicables.

Para Desconectar la Alimentación: Unidades no equipadas con interruptores ON/OFF, son alimentadas cuando el cable de alimentación es conectado a la corriente eléctrica. Las unidades equipadas con interruptores son alimentadas de igual forma, pero adicionalmente requieren que el interruptor esté posicionado en ON. El cable de alimentación es el medio principal de desconexión del equipo.

Veiligheidsmaatregelen

VOORZICHTIG

GEVAAR VOOR ELEKTRISCHE SCHOK. NIET OPENEN!

GEVAAR: OPEN DEZE BEHUIZING NIET, TENEINDE HET RISICO VAN ELEKTRISCHE SCHOKKEN TE VOORKOMEN. BINNENIN BEVINDEN ZICH GEEN DOOR DE GEBRUIKER TE REPAREREN ONDERDELEN. RAADPLEEG VOOR REPARATIE GEKWALIFICEERD SERVICEPERSONEEL.

Het symbool van een bliksem met pijlpunt in een gelijkzijdige driehoek is bedoeld om de gebruiker te waarschuwen voor de aanwezigheid van een niet geïsoleerde 'gevaarlijke spanning' binnen in de behuizing van het product, die voldoende sterk kan zijn om personen het risico van een elektrische schok te geven.

Het symbool van een uitroepteken in een gelijkzijdige driehoek is bedoeld om de gebruiker te waarschuwen voor de aanwezigheid van belangrijke bedienings- en onderhouds- (service-) instructies in de documentatie die met het product zijn meegeleverd.

Attentie: De installatie dient alleen te worden uitgevoerd door gekwalificeerd servicepersoneel en in overeenstemming met de plaatselijk geldende installatievoorschriften.

Onderbreken van de spanning. Units met of zonder AAN/UIT-schakelaar, staan onder spanning zolang het netsnoer is verbonden met de wandcontactdoos. De unit is echter alleen bedrijfsklaar als de AAN/UIT-schakelaar in de AAN-stand staat. Losnemen van het netsnoer is voor alle units de belangrijkste manier om de spanning te onderbreken.

Precauzioni

ATTENZIONE

PERICOLO DI SCOSSA ELETTRICA. NON APRIRE.

ATTENZIONE: PER RIDURRE IL PERICOLO DI SCOSSA ELETTRICA, NON APRIRE LE COPERTURE. L'INTERNO NON CONTIENE COMPONENTI CHE L'UTENTE PUÒ RIPARARE PERSONALMENTE. RIVOLGERSI AL PERSONALE DI ASSISTENZA QUALIFICATO PER QUALSIASI INTERVENTO DI RIPARAZIONE..

Il simbolo triangolare di un fulmine con la punta a freccia intende mettere in allerta l'utente riguardo alla presenza di tensioni pericolose non isolate all'interno del guscio dell'unità, che potrebbero essere di intensità sufficiente per costituire pericolo di elettrocuzione.

Il punto esclamativo racchiuso in un triangolo equilatero intende avvisare l'utente in merito alla presenza di importanti istruzioni operative e di manutenzione nella documentazione di accompagnamento all'unità.

Precauzione: affidare l'installazione al solo personale qualificato e nel rispetto del Codice elettrico nazionale (USA) o dei codici locali pertinenti.

Scollegamento dell'alimentazione. Gli apparecchi con o senza commutatori ON-OFF ricevono corrente tutte le volte che il cavo di alimentazione è inserito nella presa di forza; tuttavia, gli apparecchi muniti di commutatore ON-OFF funzionano solo se quest'ultimo è in posizione ON. Il cavo di alimentazione serve a scollegare dalla corrente tutti gli apparecchi.

Medidas de Segurança

CUIDADO

RISCO DE CHOQUE ELÉCTRICO. NÃO ABRIR!

CUIDADO: PARA REDUZIR O RISCO DE CHOQUE ELÉCTRICO, NÃO ABRA AS TAMPAS. O INTERIOR NÃO CONTÉM PEÇAS QUE NECESSITEM DE MANUTENÇÃO. A MANUTENÇÃO DEVE SER EFECTUADA POR PESSOAL DE ASSISTÊNCIA TÉCNICA QUALIFICADO.

O símbolo do raio com a cabeça de uma seta dentro de um triângulo equilátero serve para alertar o utilizar para a presença de "corrente eléctrica perigosa" não isolada no interior da caixa do produto que pode ser suficiente para dar origem a choques eléctricos.

O ponto de exclamação dentro de um triângulo equilátero serve para alertar o utilizador para a presença de instruções de funcionamento e manutenção importantes na documentação fornecida com o aparelho.

Atenção: A instalação deve ser efectuada por pessoal de assistência técnica qualificado, de acordo com o National Electrical Code (Normas de Electricidade Nacionais) ou a legislação local aplicável.

Desconexão da electricidade. Unidades com ou sem interruptores ON-OFF são activadas sempre que o cabo eléctrico for ligado a uma fonte de alimentação. No entanto, a unidade fica operacional apenas quando o interruptor ON-OFF se encontrar na posição ON. Para desligar a electricidade em qualquer uma das unidades deve ser utilizado o cabo eléctrico.

Zasady Bezpieczeństwa

UWAGA

NIEBEZPIECZEŃSTWO PORAŻENIA PRĄDEM ELEKTRYCZNYM. NIE OTWIERAĆ!

UWAGA: ZE WZGLĘDU NA NIEBEZPIECZEŃSTWO PORAŻENIA PRĄDEM NIE WOLNO OTWIERAĆ POKRYWY. W ŚRODKU NIE MA ŻADNYCH ELEMENTÓW, KTÓRE MOGĄ BYĆ NAPRAWIANE PRZEZ UŻYTKOWNIKA. NAPRAWĘ NALEŻY POWIERZYĆ AUTORYZOWANEMU PUNKTOWI SERWISOWEMU.

Błyskawica ze strzałką wewnątrz trójkąta równobocznego ma za zadanie zwrócić uwagę użytkownika na obecność nieizolowanego "niebezpiecznego napięcia" wewnątrz obudowy urządzenia, o wielkości stwarzającej niebezpieczeństwo porażenia prądem.

Wykrzyknik wewnątrz trójkąta równobocznego ma za zadanie zwrócić uwagę użytkownika na ważne czynności, związane z obsługą i konserwacją urządzenia, zamieszczone w Instrukcji obsługi.

Uwaga: Instalację urządzenia powinien wykonać tylko wykwalifikowany personel, zgodnie z przepisami NEC lub odpowiednimi przepisami miejscowymi.

Odłączanie zasilania. Urządzenia zarówno nie posiadające, jak i posiadające wyłączniki ON-OFF znajdują się pod napięciem, jeżeli tylko przewód zasilający jest połączony ze źródłem zasilania. Jednakże urządzenie działa tylko wtedy, gdy wyłącznik znajduje się w położeniu ON. Przewód zasilający jest głównym odłącznikiem zasilania dla wszystkich rodzajów urządzeń.

Table of Contents

DÉSA Instruction Book

Important Safeguards 2
FCC Information 3
1. PRODUCT DESCRIPTION 10
1.1 Models 10
1.2 Features 10
1.3 Basic Functionality 10
1.4 DÉSA Cautions 10
2 UNPACKING 10
2.1 Supplied Package Contents 10
2.2 User-Supplied Components 11
3 RECOMMENDED ACCESSORIES 11
3.1 Extended Storage Devices 11
3.2 KVMs 11
3.3 Power Backup/UPS 11
3.4 PTZ Adaptors 11
3.5 Analog Keyboards 11
4 SERVICE 11
5 INSTALLATION 12
5.1 Before Powering Up The DESA 12
5.2 Front Panel 12
5.3 Upper Rear Panel 13
5.4 Lower Rear Panel 13
5.5 Basic Connections 14
5.6 Connecting Bosch AutoDomes 14
5.7 Connecting Other Manufacturer's Domes 14
5.8 Connecting Sensor Inputs 14
5.9 Connecting Control Outputs 14
5.10 Connecting the Watchdog Cable 15
6 POWERING ON THE DESA FOR THE FIRST TIME 16
6.1 Initial Power Up of the DESA 16
6.2 DESA Launch Screen 16
6.3 First Time Login 16
7 MAIN SCREEN 17
7.1 Live Display Buttons 17
7.2 Storage Indicator 17
7.3 Time and Date Display 17
7.4 Camera Indicators 18
7.5 Alarm Sensor Indicators 18
7.6 Auxiliary Control Indicators 18
7.7 Search Button 18
7.8 Setup Button 18
7.9 Login / Logout Button 18
7.10 Quit Button 18
7.11 Item Description In Cameos 18
7.12 Event Alert Button 18

7.13 About Button 18
7.14 Help Button 19
7.15 Location 19
7.16 Server Code 19
8 DÉSA SYSTEM SETUP OPTIONS 20
8.1 Integrated Keyboard 20
8.2 Save and Close Buttons 20
8.3 Hardware Setup Tab 21
8.4 Motion Setup Tab 24
8.5 Schedule Setup Tab 27
8.6 Screen Division Tab 31
8.7 Communications Setup Tab 32
8.8 Server Information Tab 33
8.9 Password Setup 35
8.10 Audio Setup Tab 37
8.11 System Setup Tab 38
8.12 Storage Setup Tab 43
8.13 E-Map Setup Tab 44
8.14 View Log Records Tab 45
8.15 E-Mail Setup Tab 46
8.16 Intelligent Guard 48
8.17 Virtual Ruler Tab 51
9 SEARCH 52
9.1 Search Button 52
9.2 Calendar 52
9.3 IntelliSearch Graphical Display 53
9.4 Selecting Information Playback 53
9.5 Screen Divisions Icons 53
9.6 Panorama/Thumbnail Search Icon 53
9.7 Screen Resize Icon 53
9.8 Zoom In/ Zoom Out/ Move Icon 53
9.9 Refresh Icon 54
9.10 Printer Icon 54
9.11 Backup Icon 54
9.12 Bookmark 57
9.13 Audio Icon 57
9.14 Image Enhancement 58
9.15 Index Search 58
9.16 Index Search Panel 59
9.17 Skip and Delay Sliders 59
10 DESA REMOTE CLIENT GUIDE 60
10.1 System Requirements 60
10.2 Loading the DESA Remote Client 60
10.3 DESA Remote Display 62
10.4 Making a Remote Connection 67
10.5 Searching Archived Video 73
10.6 Remote Administration 74
APPENDIX A 75

1 PRODUCT DESCRIPTION

1.1 Models

DR081xx:

- DÉSA8
- 8-Channel
- 120 ips
- 120, 250, 500 GB

1.2 Features

- Windows® 2000 Professional OS
- Frame Rates of 120 IPS
- Remote Multiserver Access (Maximum of 16 Simultaneous Connections)
- Remote Administration Configuration (Limited)
- In-Cameo Local and Remote PTZ Control
- POS Database Interface (Using Separate Software, Supplied)
- Intelligent Search Engine
- Remote Event Notification
- Ethernet, and USB Connections, Standard
- CD-RW, Standard
- Remote Center Software, Standard
- Single Channel Audio Recording
- Two Way Audio From Local to Remote Center

1.3 Basic Functionality

The DÉSA8 Digital Recorder is designed to simultaneously record, search, playback, archive, and have a spot monitor output. Additionally, remote connections can view live video, play back, archive, and create a video audit trail. Single channel audio recording is available, with any selected camera.

DÉSA8 provides Point of Sale (POS) software to integrate with certain types of transaction devices. Transactions can be searched by dollar amount, transaction type, or by user.

Recording can be continuous, or activated in a variety of setting combinations. Activity detection is by motion, physical alarm input, or both. All cameras can be individually masked from viewing, recording, or from scheduled recording.

1.4 DÉSA8 Cautions

- It is NOT recommended to modify or add the following:
  1. Hardware not recommended or supported by Bosch.
  2. Software that is not already installed on the DÉSA8.
  3. Opening the DÉSA8 chassis to add, modify, or repair without being instructed to do so by an authorized Bosch Technician.
- Isolate all connections to the DÉSA8 from outside environments, by surge suppression or nonconductive materials (i.e. fiber).
- Switch power supply disconnect switch to the OFF (O) position before unplugging from any power source.
- Ensure that the Watchdog cable is connected on the rear of the system from COM 1 to the Watchdog Card (DIN) connector.

2 UNPACKING

This electronic equipment should be unpacked and handled carefully.

2.1 Supplied Package Contents

Ensure that the following items are included:

- PC Case Door Keys
- Installation Manuals
- Mouse
- Keyboard
- Power Cord
- Watchdog/PTZ Control Cable
- RS-422 PTZ Data Cable
- DÉSA8 Recovery CD
- DÉSA8 Remote Client CD

2.2 User-Supplied Components

- PC Monitor (1024x768 32-bit True Color)
- Surge Protection or Backup Power Supply (Highly Recommended)
- PTZ Converters or Adaptors
- USB Modem
- Ethernet Cables (Cat5e)
- PC Speakers
- PC Microphone
- CDR, CD-RW Media

3 RECOMMENDED ACCESSORIES

3.1 Extended Storage Devices

- Bosch DVAD Series Arrays
- Bosch DVAS Series Arrays

3.2 KVMs

- StarTech®.com Ltd. StarView KVM Switches.

3.3 Power Backup/UPS/Surge Suppression

- Uninterruptible Power Supplies (UPS)
- Surge Suppressors

Why is UPS and Surge Suppression Important?

The product purchased is electronic equipment that is sensitive to fluctuations in power sources. This product contains components that can be damaged if the power source has a sudden surge, brown out, or black out. The use of UPS and Surge Suppression devices can greatly reduce this factor. If you have any questions in regards to the type of UPS or Surge device, contact Technical Support.

3.4 PTZ Adaptors

- Bosch LTC 8786 (RS-232 and Analog Keyboard Input to 16 Biphase Outputs)
- Bosch LTC 8780 (RS-232 Input to 15 Biphase Outputs)

3.5 Analog Keyboards

- Bosch LTC 5136 AutoDome® Controller (compatible with LTC 8786)

4 SERVICE

If the unit ever needs repair service, the customer should contact the nearest Bosch Security Systems, Inc. Service Center for authorization to return and shipping instructions.

Service Centers

U.S.A.: Phone: 800-366-2283 or 408-956-3895
fax: 800-366-1329 or 408-956-3896
e-mail: NationalServiceCenter@ca.slr.com
Canada: 514-738-2434
Europe, Middle East & Asia Pacific Region:
32-1-440-0711
For additional information,
see www.boschsecuritysystems.com.

5 INSTALLATION

5.1 Before Powering up the DÉSA8

5.1.1 Ensure that the DÉSA8 is installed in a secure, temperature controlled, dry location.

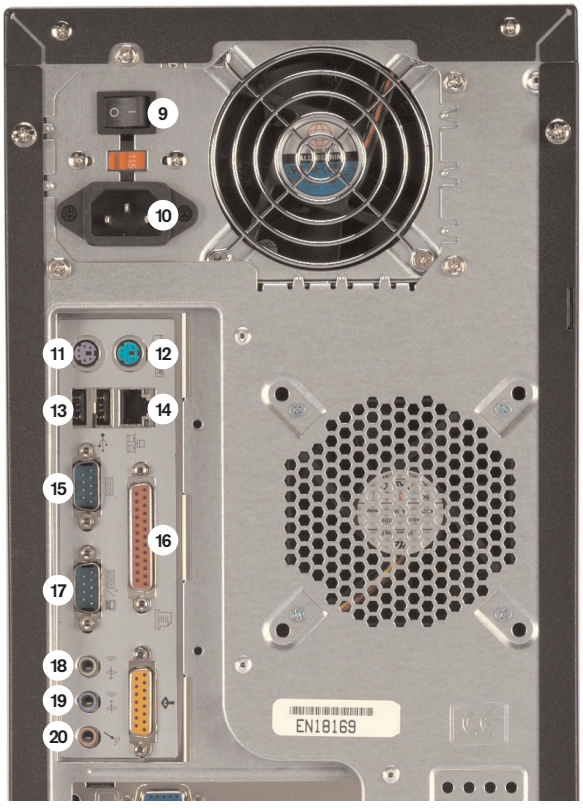
5.1.2 Ensure that the power source is the proper, stable operating voltage. Refer to APPENDIX A for technical specifications.

5.1.3 Ensure that all external equipment and connections to the DÉSA8 are made.

5.2 Front Panel (Inside the DÉSA8 cabinet)

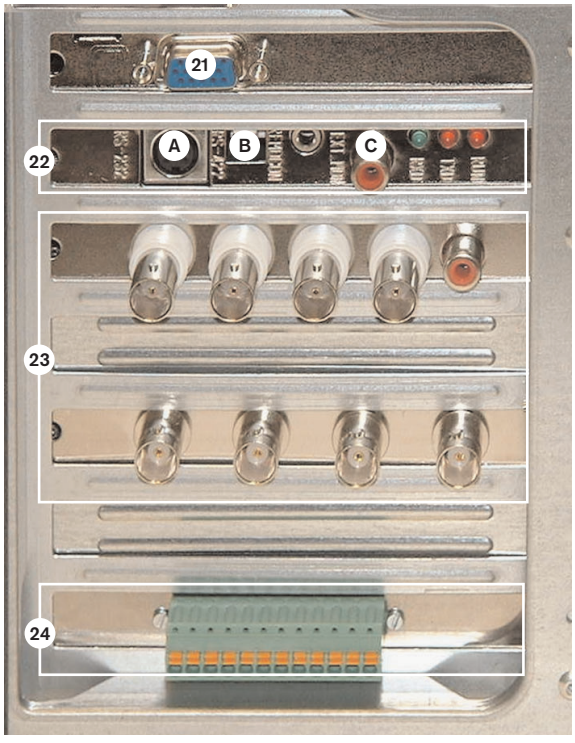
1. **CD-RW Drive**
2. **Floppy Disk Drive**
3. **Secondary Power Switch**
4. **System Reset Switch**
5. **System Power LED**
6. **System HDD LED**
7. **USB Ports**

5.3 Upper Rear Panel



9. **Primary Power Disconnect Switch**
10. **Power Cord Receptacle**
11. **Keyboard Port (Purple)**
12. **Mouse Port (Green)**
13. **USB Ports**
14. **Ethernet Port**
15. **COM 1**
16. **Printer Port (Pink DB-25)**
17. **COM 2**
18. **Audio Out (Light Green)**
19. **Audio In (Light Blue)**
20. **Microphone In (Pink)**

5.4 Lower Rear Panel



21. **PC Monitor Port (Blue)**
22. **Watchdog Card**
    - **A.** DIN Connector (Connect to COM 1 with supplied cable)
    - **B.** RS-422 Output
    - **C.** External Monitor Output
23. **Capture Cards**
    - Camera BNC Inputs (1-8)
24. **Sensor and Control Connector Block**

5.5 Basic Connections

5.5.1 Connect cameras to BNC inputs labeled 1-8.

5.5.2 Connect the power cord (Ensure that the Primary Disconnect Switch is in the OFF (O) position).

5.5.3 Connect Ethernet cable (if used; not supplied).

5.5.4 Connect Speakers (if used; not supplied).

5.5.5 Connect Microphone (if used; not supplied).

5.5.6 Connect Audio Source (if used).

5.5.7 Connect External Monitor (requires BNC-RCA adaptor; not supplied).

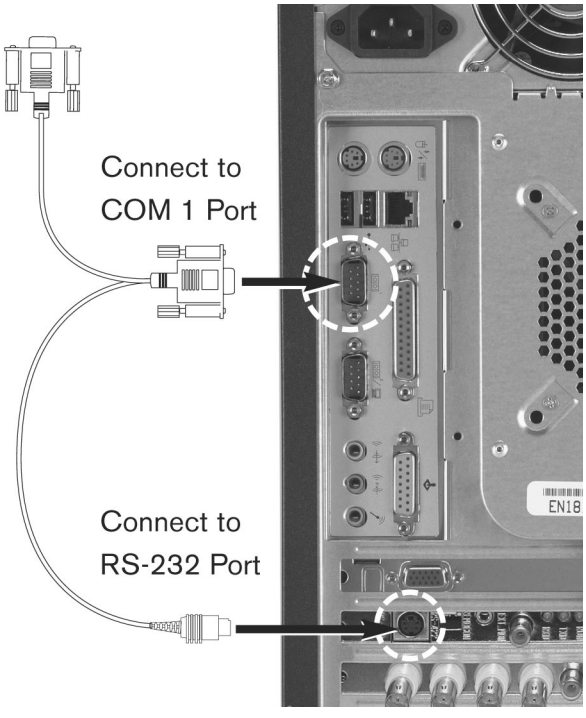
5.5.8 Connect PC Monitor (not supplied).

5.6 Connecting Bosch AutoDomes

5.6.1 Requires one of the following Bosch products to convert from RS-232 to Biphase:

- LTC 8786 (preferred) or
- LTC 8780

5.6.2 Connect the supplied Watchdog/PTZ control cable to the RS-232 input, on either the LTC 8786 or the LTC 8780.



5.6.3 Connect the 2-conductor shielded biphase wire from the AutoDomes to the biphase output on the LTC 8786 or LTC 8780. The connections are polarity sensitive; (+) positive, (-) negative, (S) shield.

5.6.4 The LTC 8786 is recommended for use in most cases, and supports 16 individual biphase outputs and an analog keyboard input (LTC 5136).

NOTE: The LTC 8786 and LTC 8780 DO NOT need to be reconfigured from the factory.

5.7 Connecting Other Manufacturer's Domes

The DÉSA8 provides two types of PTZ output:

- RS-232 (typically connected to a converter)
- RS-422
  1. Top Pin (+) positive
  2. Middle Pin (GND) ground
  3. Bottom Pin (-) negative

NOTE: The Watchdog cable must be properly connected to COM 1 and the DIN connector on the Watchdog Card.

5.8 Connecting Sensor Inputs

- Connect one of the two conductors to the proper sensor input 1-4.
- Connect the other conductor to the (GND) ground input of the sensor input.

5.9 Connecting Control Outputs

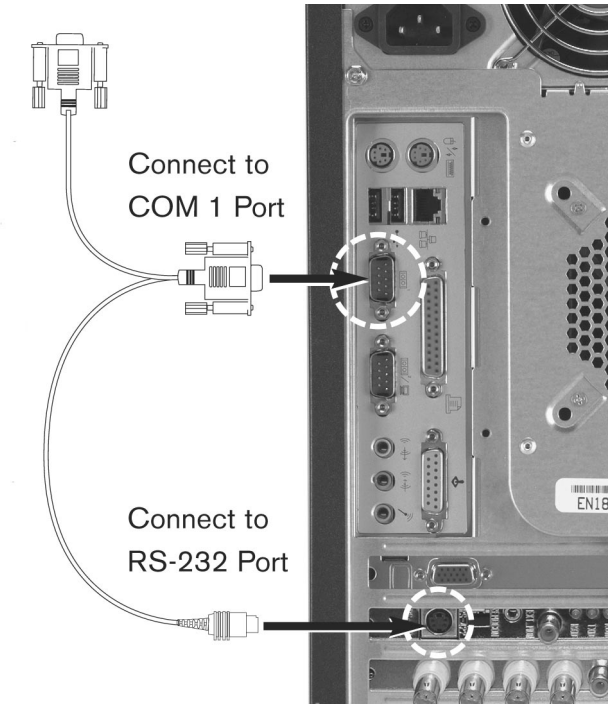
- Connect one of the two conductors to the proper control output 1-4.
- Connect the other conductor to the (GND) ground input of the Control.

5.10 Connecting the Watchdog Cable

The purpose of the Watchdog cable and card is to provide:

- Sensor Input Functions
- Control Output Functions
- PTZ Control
- Watchdog Monitoring Functions
- Remote Event Status

NOTE: The Watchdog cable must always be used for the system to function properly.



5.10.1 Locate the supplied cable with the two DB-9 connectors, and one DIN connector end.

5.10.2 Connect the DB-9 connector end (that has two cables going into it) to COM 1.

5.10.3 Connect the DIN (barrel connector) to the receiver on the Watchdog Card.

5.10.4 Connect the DB-9 connector (with a single cable) to a PTZ converter box (if used).

6 POWERING ON THE DÉSA8 FOR THE FIRST TIME

6.1 Initial Power Up of the DÉSA8

Once all appropriate connections to the DÉSA8 have been made, begin the power up process:

- Turn on the Primary Power Switch on the rear panel of the DÉSA8.
- Briefly push the Secondary Power Switch on the front panel of the DÉSA8.

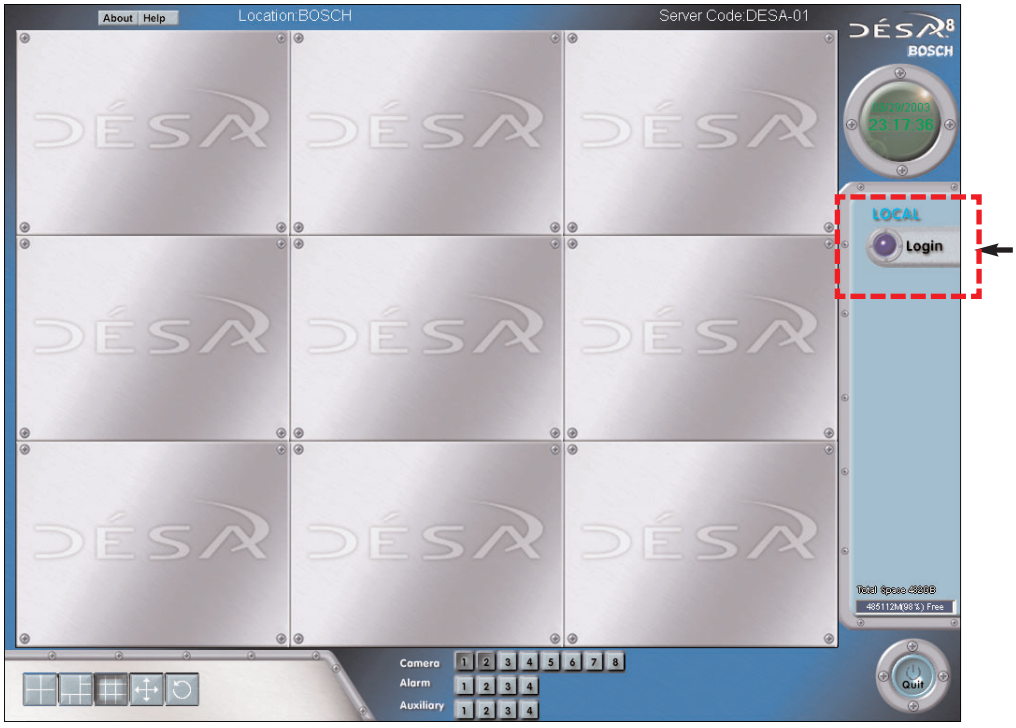
6.2 DÉSA8 Launch Screen

- The DÉSA8 will immediately startup and launch into the DÉSA8 application.
- The following screens appear while the DÉSA8 application is loading.

6.3 First Time Login

6.3.1 Once the DÉSA8 application has launched, Login to operate the system.

6.3.2 Click LOGIN.

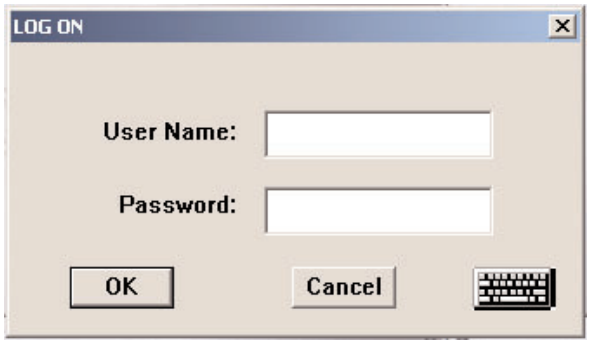


6.3.3 The default *User Name* and *Password* for Administrator is '*desa*' / '*desa*' (lowercase letters).

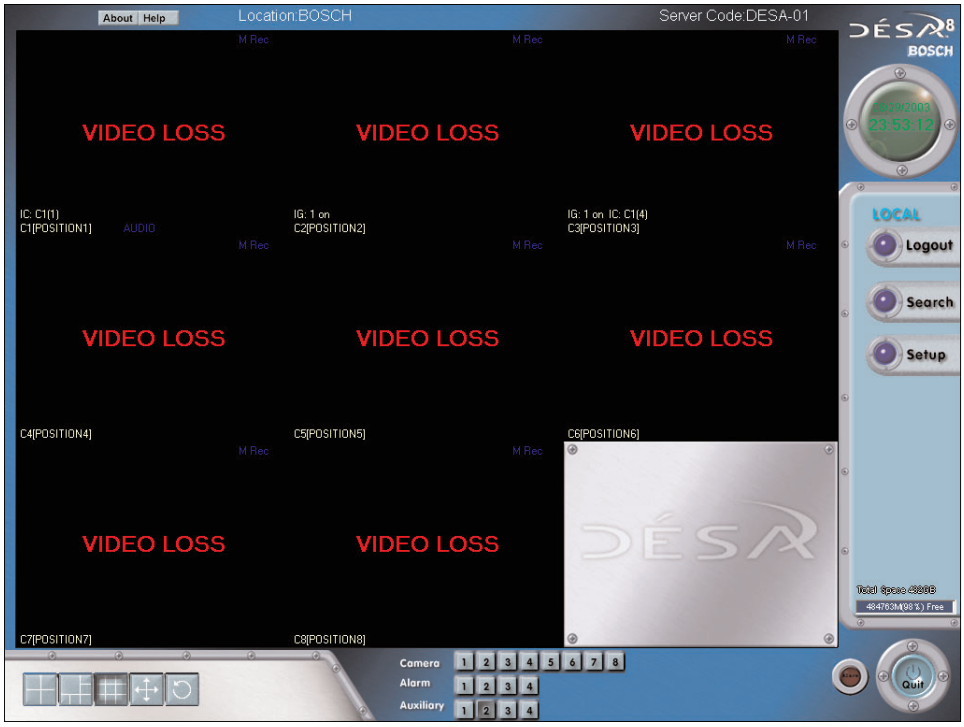
6.3.4 The DÉSA8 application *Login* button now displays *Logout*.

6.3.5 Enter *Setup* and go to the *Passwords* Tab, and enter a new Desa User Password immediately. This is covered in SECTION 8.9.

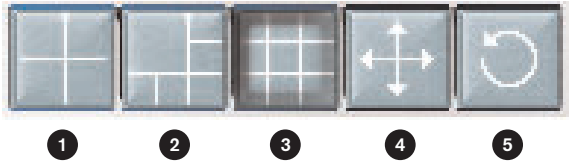
NOTE: DO NOT leave the DÉSA password as the default.



7 MAIN SCREEN



7.1 Live Display Buttons



1. Quad
2. Five Plus One
3. Three By Three
4. Full Screen
5. Sequence

7.2 Storage Indicator

There are two parts to the storage Indicator:

1. Total Space is the total amount of storage available on the system.
2. Free is the amount of free space available before the video starts to Recycle (Overwrite).

7.3 Time and Date Display

Displays the current time and date of the Server.

NOTE: Do not change the time and date of the server while the DESA application is running. Close the DESA application before making any changes.

7.4 Camera Indicators

Indicates when the cameras are recording.

7.5 Alarm Sensor Indicators

Indicates when a sensor input has been triggered.

7.6 Auxiliary Control Indicators

Indicates when the control output is triggered or active. The auxiliary output can be manually activated by depressing the individual control button.

7.7 Search Button

Opens the server search screen.

7.8 Setup Button

Opens the setup menus

7.9 Login / Logout Button

Restricts access to the system functions requiring a user name and password to login to the system. When logged out of the system the usability of the system is restricted to the configuration of the Logout User.

7.10 Quit Button

The Quit button can only be used if the user of the system has been given permission in the Password Setup menu to Exit the system.

7.11 Item Description In Cameos

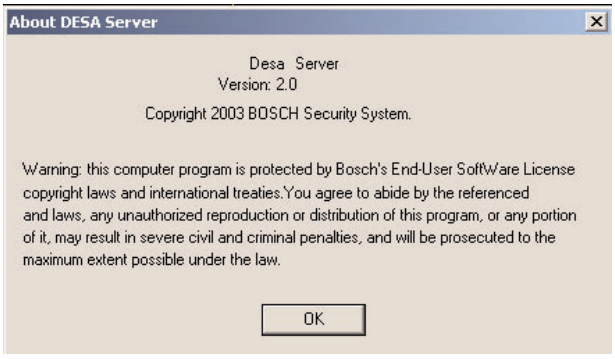
C1, C2 etc. is the physical input on the system. The [ ] contains the description of the camera setup in the Hardware Setup menu.

7.12 Event Alert Button

The **Alarm** button on the Main Display will flash when there's an alarm. Click the **Alarm** button to open *Log Records* and allow comments to be made for each event.

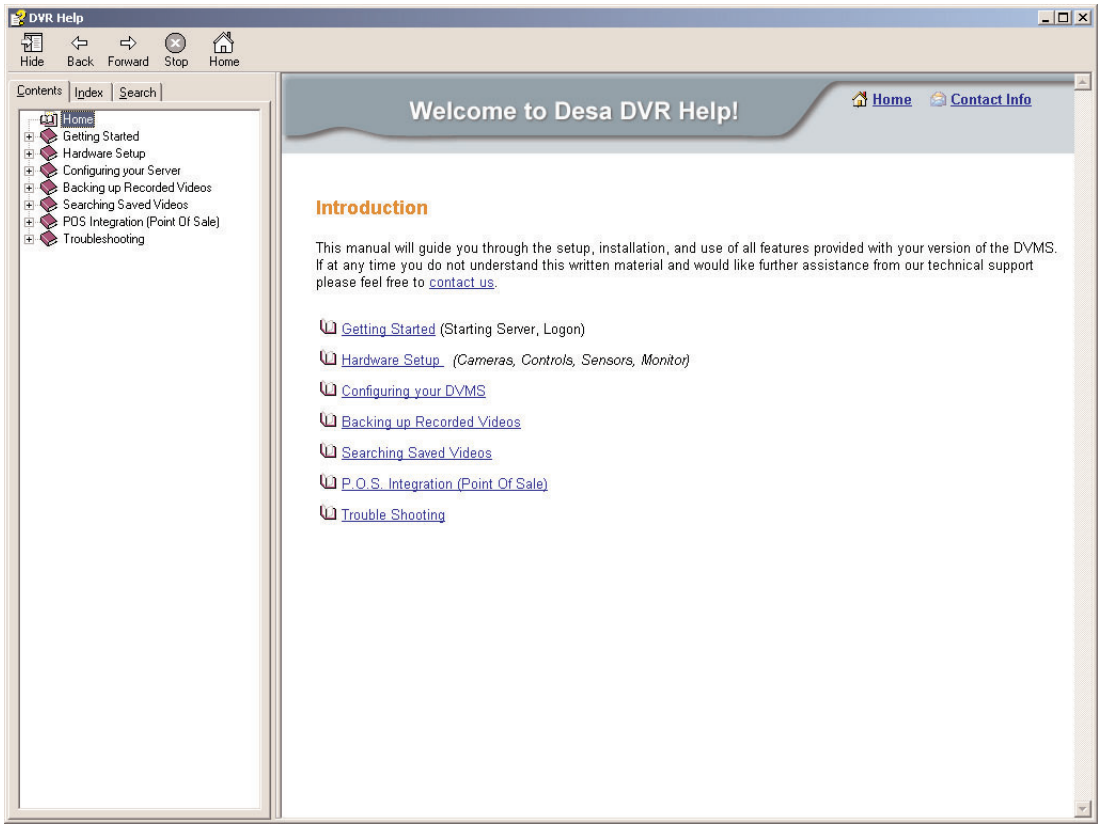
7.13 About Button

Displays current version of DÉSA8 Server Software.


About DESA Server
Desa Server
Version: 2.0
Copyright 2003 BOSCH Security System.
Warning: this computer program is protected by Bosch's End-User SoftWare License copyright laws and international treaties.You agree to abide by the referenced and laws, any unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law.
OK

7.14 Help Button

Click the **Help** button to open the *Help* window that contains basic user functions and troubleshooting.


DVR Help
Hide
Back
Forward
Stop
Home
Contents
Index
Search
Home
Getting Started
Hardware Setup
Configuring your Server
Backing up Recorded Videos
Searching Saved Videos
POS Integration (Point Of Sale)
Troubleshooting
Welcome to Desa DVR Help!
Home
Contact Info
Introduction
This manual will guide you through the setup, installation, and use of all features provided with your version of the DVMS. If at any time you do not understand this written material and would like further assistance from our technical support please feel free to contact us.
Getting Started (Starting Server, Logon)
Hardware Setup (Cameras, Controls, Sensors, Monitor)
Configuring your DVMS
Backing up Recorded Videos
Searching Saved Videos
P.O.S. Integration (Point Of Sale)
Trouble Shooting

7.15 Location

The Location is found in the upper left-hand side of the DÉSA8's main screen and displays information about the unit.

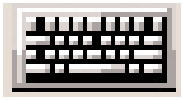
7.16 Server Code

The Server Code is found in the upper right-hand corner of the DÉSA8's main screen and is used by the remote software to identify each DÉSA8 System. This code must be seven characters long, and unique for every unit.

8 DÉSA8 SYSTEM SETUP OPTIONS (Setup Button)

Click the **Setup** button to initiate System Setup.

8.1 Integrated Keyboard



8.1.1 The Integrated Keyboard icon is located at the bottom of the *Setup* screens and eliminates the need for a physically connected keyboard after initial setup.

8.1.2 The Integrated Keyboard stays open while moving between tabs. When finished, the Integrated Keyboard must be closed.

NOTE: At times, a keyboard may need to be reconnected to the system, so be sure the supplied keyboard is available for advanced system configuration.

8.2 Save and Close Buttons

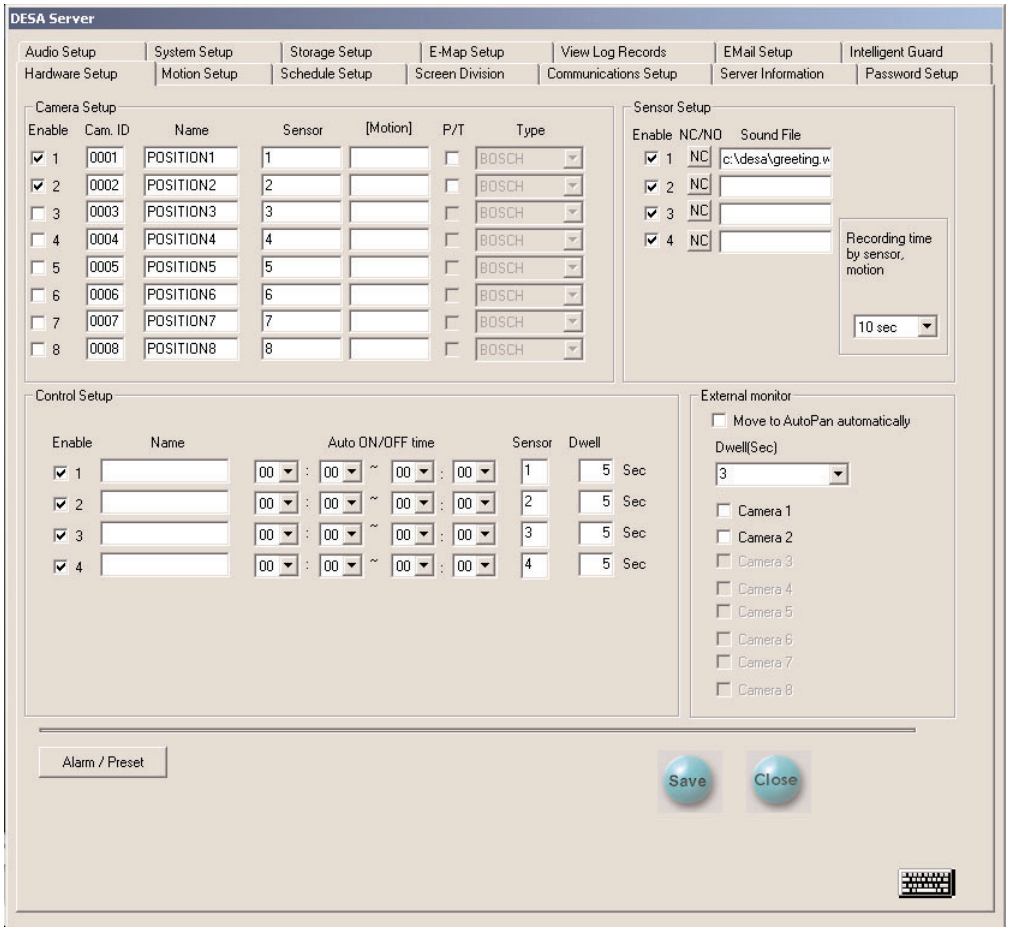
8.2.1 **Save** is used to retain any changes made in each of the *Setup* menu tabs.

8.2.2 To save your changes, you must press **Save** before moving between tabs, and before pressing **Close**.

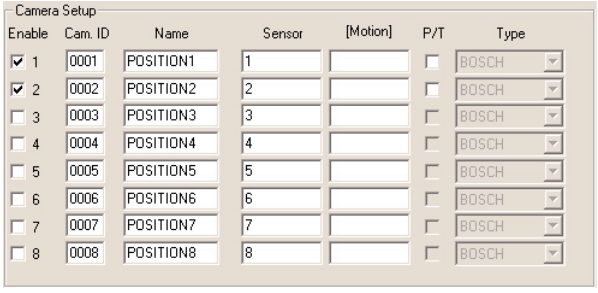
8.2.3 **Close** is used to close out of the *Setup* menus, exiting to the Main Display.

8.2.4 Closing the *Setup* menu without clicking **Save** results in no changes being made.

8.3 Hardware Setup Tab



8.3.1 Camera Setup


Camera Setup
Enable Cam. ID Name Sensor [Motion] P/T Type
1 0001 POSITION1 1 BOSCH
2 0002 POSITION2 2 BOSCH
3 0003 POSITION3 3 BOSCH
4 0004 POSITION4 4 BOSCH
5 0005 POSITION5 5 BOSCH
6 0006 POSITION6 6 BOSCH
7 0007 POSITION7 7 BOSCH
8 0008 POSITION8 8 BOSCH

8.3.1.1 Use the *Camera Setup* section of the *Hardware Setup* Tab to *Enable (Disable)* cameras that are connected to the system. Checking the box enables camera input; uncheckng the box disables the camera input.

NOTE: Unchecking the the box for a camera also disables that camera in the *Screen Division* Tab, and in the *External Monitor* section of the *Hardware Setup* Tab. Re-enabling the camera DOES NOT automatically re-enable these settings. The settings will need to be manually restored.

8.3.1.2 *Cam. ID* enables logical numbering of every camera in the system; typically used when multiple DESAs make up a large system. *Cam ID* directly relates to AutoDomes connected to the DÉSA system for control. The *Cam. ID* must match the address of the connected AutoDome.

8.3.1.3 *Name* allows a camera description to be associated with each camera. Character length is limited to nine uppercase characters or eleven lowercase characters.

8.3.1.4 *Sensor* associates the physical sensors (alarm inputs) to a specific camera. Multiple sensors can be associated with multiple cameras by separating the sensor numbers by commas i.e. 1,2,3,

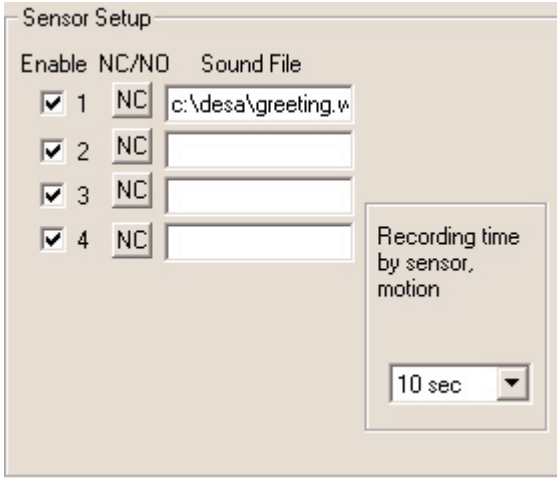
8.3.1.5 *Motion* associates motion activity to other cameras in the system, to record based on another camera's motion. Multiple cameras can be associated to multiple other cameras' motion.

8.3.1.6 *P/T*: If checked, designates that the camera connected is a PTZ type camera.

8.3.1.7 *Type*: If the P/T box has been checked for any camera, you can select the type of PTZ protocol to be used. The default is Bosch biphase protocol.

8.3.1.8 The scroll bar on the right side of the display allows scrolling up or down to reveal additional cameras.

8.3.2 Sensor (Alarm) Setup



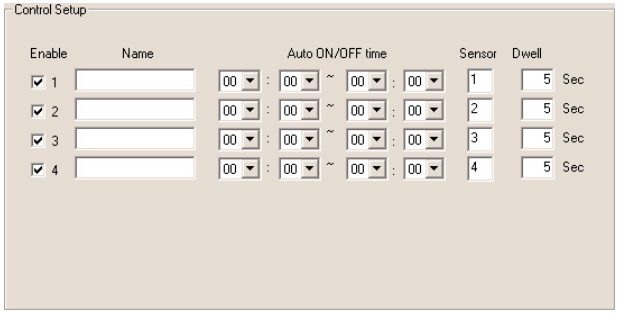
8.3.2.1 *Enable (Disable)*: If checked, enables an alarm input; removing the check disables the alarm input.

8.3.2.2 *NC/NO*: Press **NC/NO** to toggle between normally closed or normally open alarm input.

8.3.2.3 *Sound File*: Any .wav file can be loaded into the Wave folder in the following directory- C:\Program Files\Bosch\DESA\Wave. This .wav file gives the operator an audible indication that an alarm input has been triggered.

8.3.2.4 *Recording Time By Sensor, Motion* sets 1 to 60 seconds of global post-alarm recording once an alarm has been triggered.

8.3.3 Control Setup


Control Setup
Enable Name Auto ON/OFF time Sensor Dwell
1 00 : 00 ~ 00 : 00 1 5 Sec
2 00 : 00 ~ 00 : 00 2 5 Sec
3 00 : 00 ~ 00 : 00 3 5 Sec
4 00 : 00 ~ 00 : 00 4 5 Sec

8.3.3.1 *Enable (Disable)* activates/deactivates the designated Control Output.

8.3.3.2 *Name* designates a camera description to be associated with each Control Output. Limited to 14 uppercase characters or 16 lowercase characters.

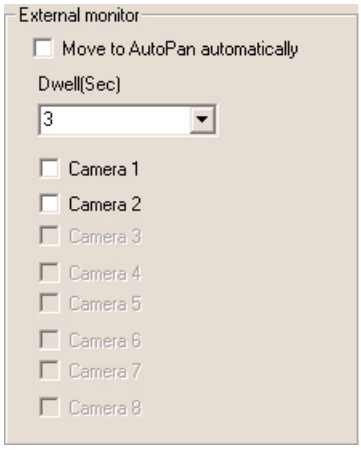
8.3.3.3 *Auto ON/OFF Time*: Setting an ON and OFF time of day defines the period of time (each day) during which the control is activated.

8.3.3.4 *Sensor (Alarm)* associates the physical sensor inputs to a specific Control output. Multiple sensors can be associated with multiple auxiliaries, by separating the alarm numbers by commas i.e. 1,2,3, etc.

8.3.3.5 *Dwell* is the duration that the Control will be closed once triggered by an sensor input. The maximum is 9999 seconds, individually.

8.3.4 External Monitor

This screen is used to select cameras to be displayed on the analog monitor output.



8.3.4.1 *Dwell (Sec)* is the time that each selected camera will be displayed during sequence operation. Cameras are available only if **Enabled** in Camera Setup.

8.3.5 PTZ Camera Preset/Alarm Setup

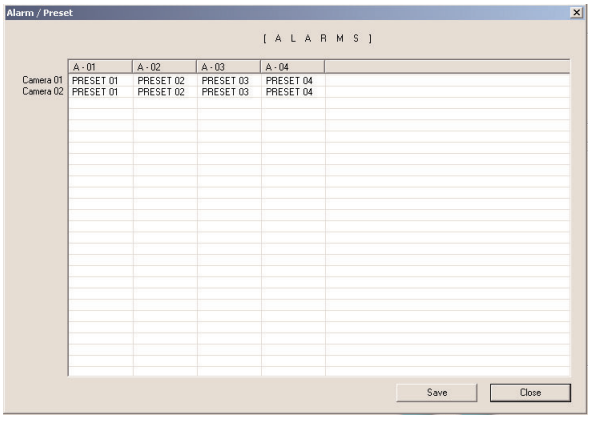
8.3.5.1 This option can only be used if there is a camera with P/T selected in *Camera Setup*.

8.3.5.2 Press *Alarm/Preset* to display the Setup screen.

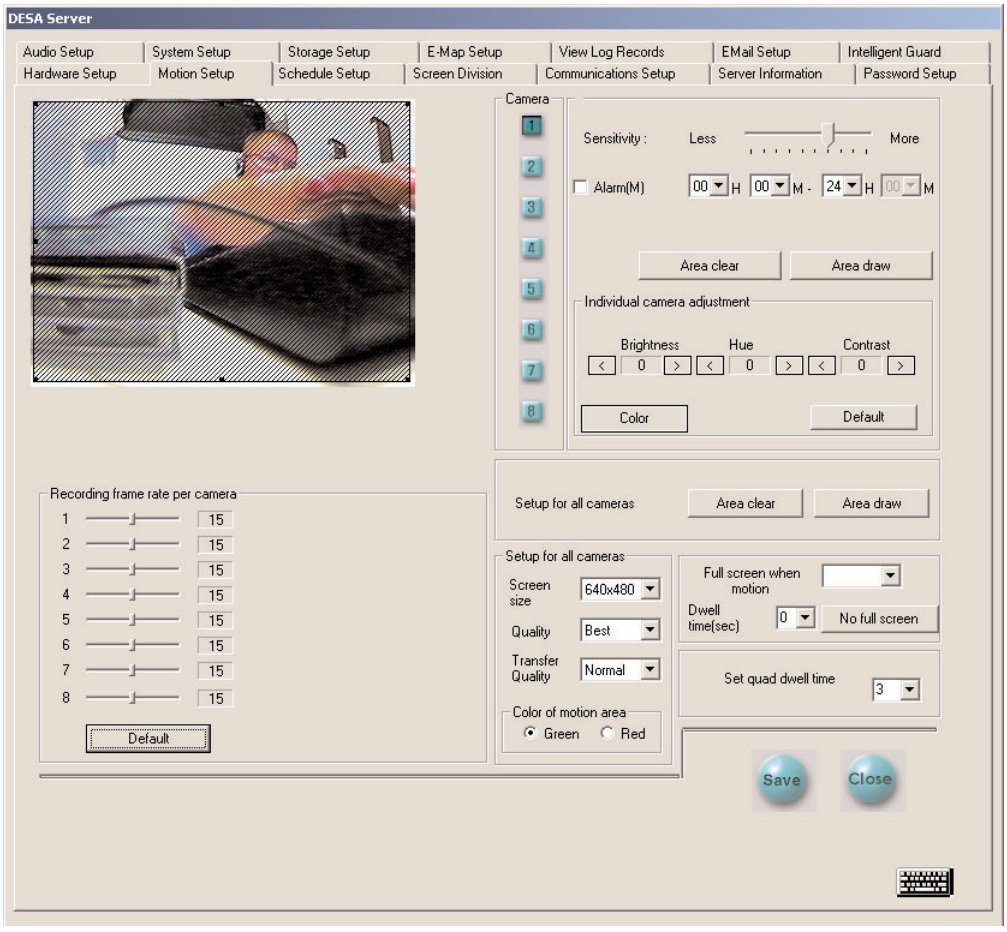
8.3.5.3 Cameras with *P/T* selected appear on the left side of the chart, and across the top are the sensors (alarm inputs).

8.3.5.4 Click the box that intersects the desired camera with the appropriate alarm. A dropdown box with 1-10 presets will appear. Select the preset to be associated with that alarm input.

8.3.5.5 The same preset can be assigned to as many of the cameras or alarm inputs as desired.



8.4 Motion Setup Tab

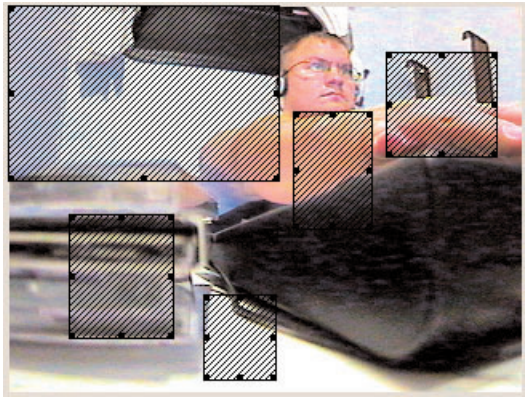


8.4.1 Camera Selection

Select the camera number to be set for motion detection, sensitivity, and individual camera adjustment.

8.4.2 Motion Detection Area

Use the mouse to draw the area in which activity is to be detected. Up to five detection areas can be defined for each camera.



8.4.3 Motion Sensitivity

This setting adjusts the sensitivity of the detection area. Sensitivity is global for all detection areas created.

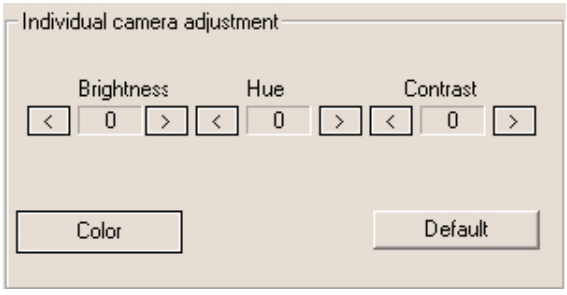
8.4.4 Alarm(M)

When enabled (per camera), upon the occurrence of a motion event, an audible alarm sounds from connected PC speakers. The **Start** and **Stop** times determine the activation of notification. For example, an alarm can be set to be audible from 4pm to 8am, and silent from 8am to 4pm.

8.4.5 Area Clear / Area Draw

These functions quickly Draw or Clear the entire area for motion detection activity.

8.4.6 Individual Camera Adjustment

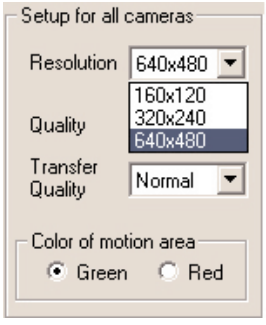


Specify *Color or Day/Night* for each camera, by clicking *Color or Day/Night* (a toggle button) The default for all camera inputs is *Color*. Adjustments for *Brightness*, *Hue*, and *Contrast* are also available for each camera. These options affect the way the video is displayed and recorded. Clicking **Default** sets *Brightness*, *Hue*, and *Contrast* back to zero, and the camera type to *Color*.

8.4.7 Setup for All Cameras

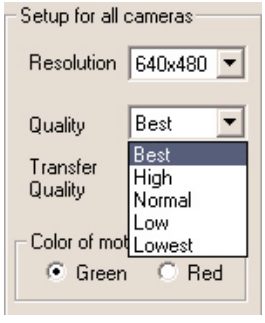
Area Clear / Area Draw are the same as the previously mentioned Area Clear / Area Draw, but affect ALL enabled cameras in the system.

8.4.8 Resolution



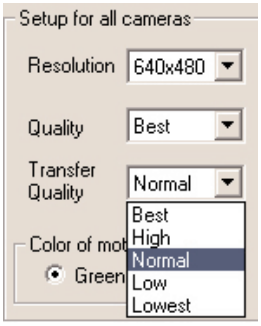
Options of recording resolution are 160x120, 320x240, or 640x480. As resolution is increased, the size of the corresponding image file increases. This will affect the number of days or weeks of video that can be stored on the available hard drive storage. To determine the storage characteristics of a particular DÉSA8 model, refer to http://www.boschsecurity.us.com.

8.4.9 Quality



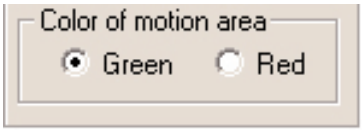
The five Quality settings are: Lowest, Low, Normal, High, and Best. This setting affects the amount of compression done on the recorded images. The lower the setting, the blockier (more pixelated) the recording becomes. This also affects file size and recording duration. As quality increases, there is a corresponding decrease in the recording duration, based on hard drive storage capacity.

8.4.10 Transfer Quality



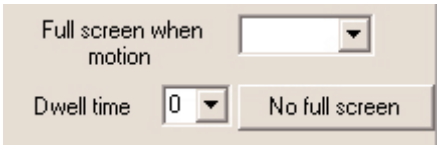
Transfer Quality affects the amount of network bandwidth used, by compressing the images being requested from a Remote Client, for live display. This precompresses the images before streaming to the remote client. The settings are Lowest, Low, Normal, High, and Best. This setting does not have any affect on streaming video being searched from the remote, only streaming video that is being viewed live at the remote.

8.4.11 Color of Motion Area



The selections to visually indicate that motion has been detected are **Red** or **Green**.

8.4.12 Full Screen When Motion

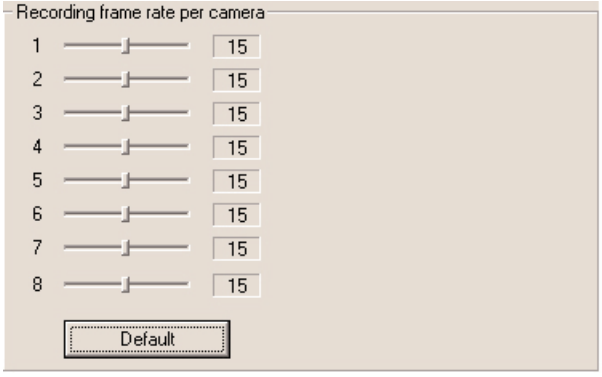


Select cameras in the dropdown list to cause those cameras to display full screen when motion is detected. Set the **Dwell Time** for the video to remain full screen. Once the motion has stopped and the dwell time has expired, the video reverts to the previous multiscreen display. Click **No Full Screen** to clear the selected cameras from being displayed full screen.

8.4.13 Set Quad Dwell Time

On the main monitor display there is a button that allows sequencing of the quad displays. This **Dwell Time** designates the duration of the quad's display (in seconds), before switching to the next quad display.

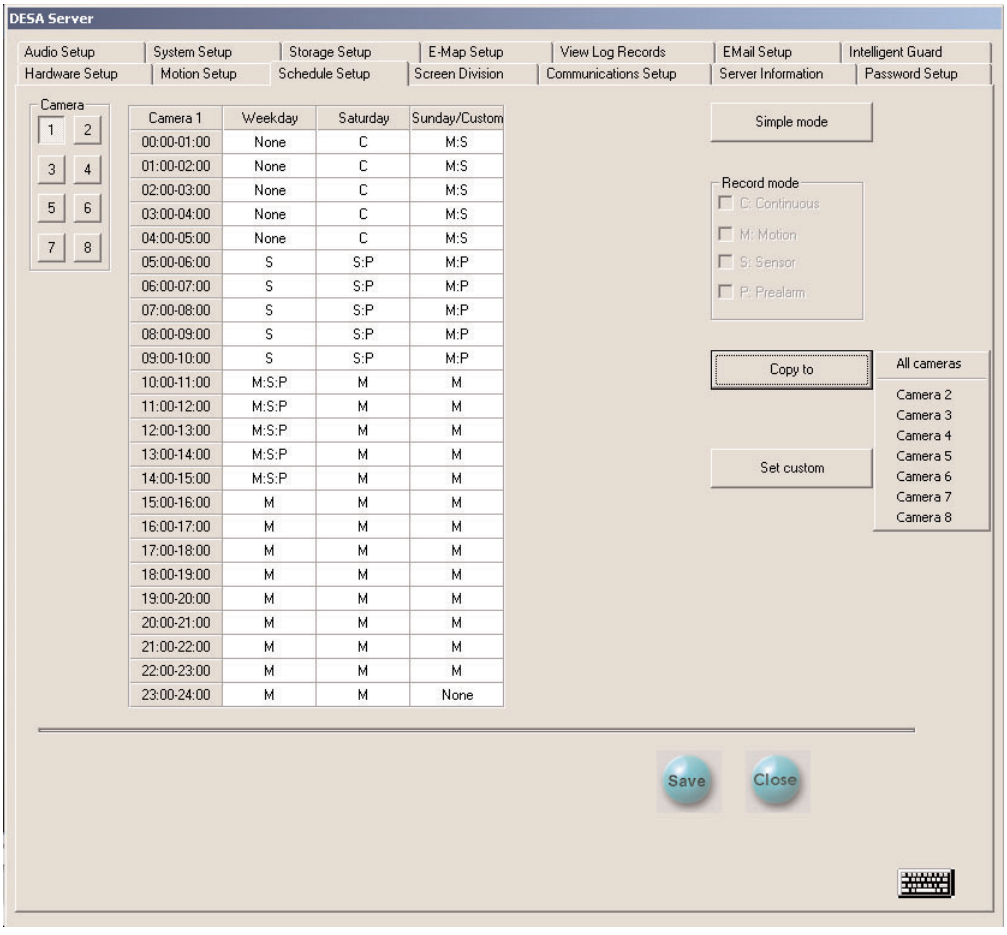
8.4.14 Recording Frame Rate per Camera



The capability of maximum frame rate is based upon your system and the number of cameras connected and enabled. Click **Default** to maximize the total available frame rate to all cameras. Adjust the frame rates by clicking and holding the slide bar, and moving it up or down (system specific limitations may exist).

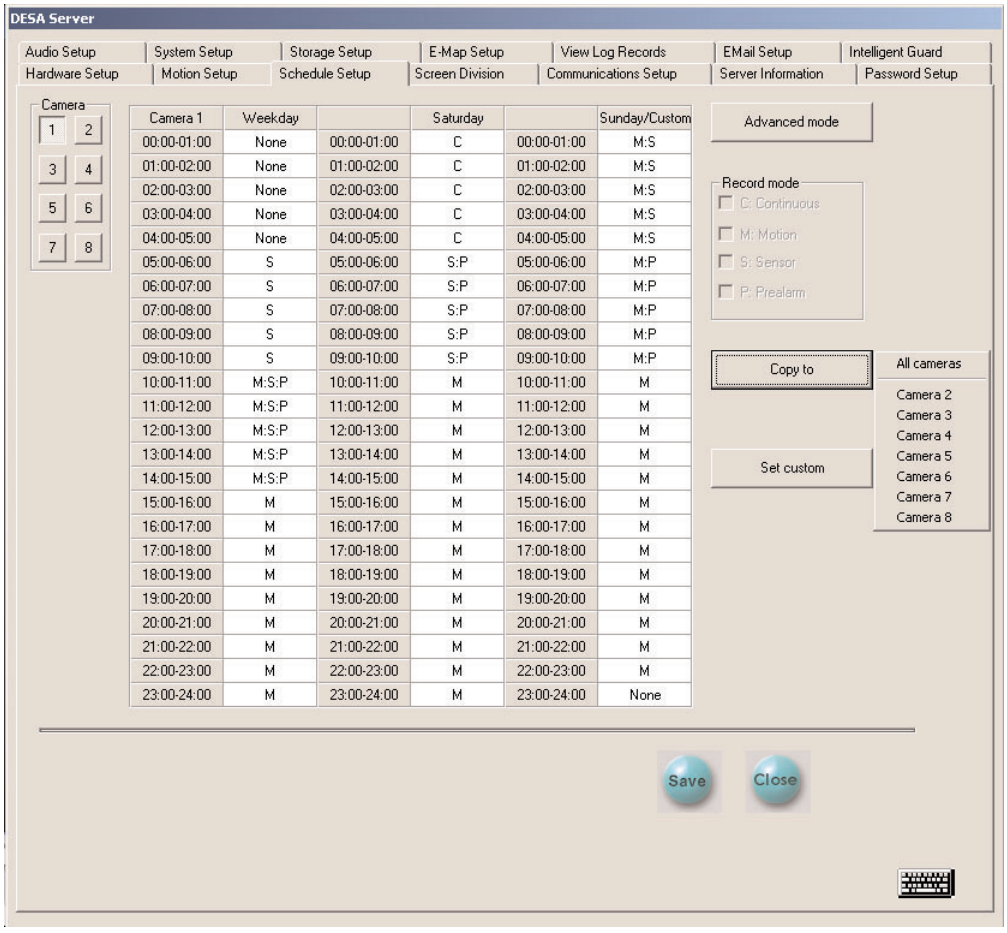
8.5 Schedule Setup Tab

8.5.1 Simple Mode Scheduling



Simple Mode provides one 24-hour period to schedule all days of the week. All time slots can be adjusted, down to the second or up to an hour, by clicking the desired time frame and moving the slide bar up or down to the desired time.

8.5.2 Advanced Mode Scheduling



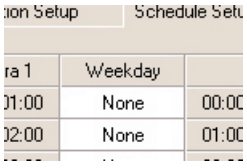
Advanced Mode provides three 24-hour periods, based on **Weekday**, **Weekend**, and **Custom**, to set different time frames for certain parts of the week.

8.5.2.1 Camera Selection

Selecting each camera allows independent scheduling of that camera and it's own 24-hour time period.

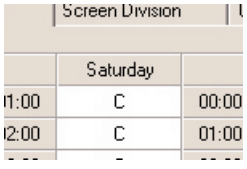
8.5.2.2 Weekday

24 blocks are available for selection of recording type for that time frame. Each block can have a different type of recording set. In **Advanced mode**, **Weekday** can have it's own times to record or not record.



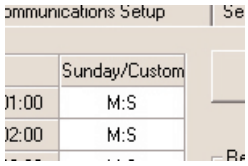
8.5.2.3 Saturday

24 blocks are available for selection of desired recording type for the time frame. Each block can have a different type of recording set. In **Advanced mode, Saturday** can have it's own times to record or not record.



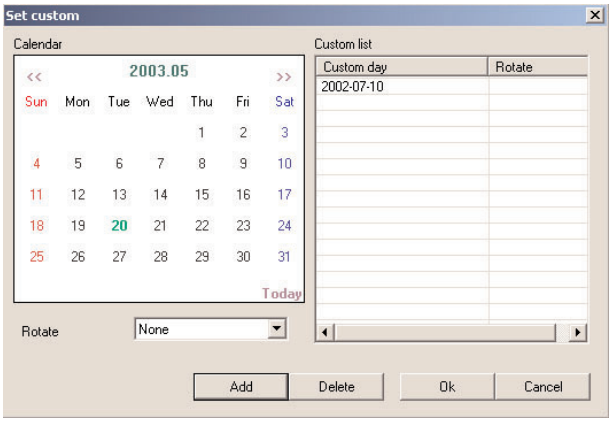
8.5.2.4 Sunday/Custom

24 blocks are available for selection of desired recording type for that time frame. Each block can have a different type of recording set. In Advanced mode, Sunday/Custom can have it's own times to record or not record.



8.5.2.5 Set Custom

Set Custom is directly related to the **Sunday/Custom** schedule, but is saved as a **Custom** schedule that can occur once, or rotate on a **Monthly** or **Yearly** basis. Set up the **Sunday/Custom** record schedule, and click **Set Custom**. Select the **Month** via the << or >> arrows, click the day of the month, and select **Rotate**. If **Rotate** is left as **None**, it will occur on that day only, never again. Once the **Month**, **Day**, and **Rotate** are set, click **Add** to add it to the **Custom List**.



NOTE: Once the **Custom Schedule** has been set, you must change the schedule back to the setup desired for Sundays.

8.5.2.6 Time Settings

There are time settings that increment hourly, up to a 24-hour period. Clicking on a block with this time frame opens a slide bar for adjustment from 1 hour down to 1 second. This provides full 24-hour scheduling flexibility.

Camera 1	Weekday	Saturday	Sunday/Custom
00:00-01:00		C	C
01:00-02:00	C	C	C
02:00-03:00	C	C	C
03:00-04:00	C	C	C
04:00-05:00	C	C	C
05:00-06:00	C	C	C
06:00-07:00	C	C	C
07:00-08:00	C	C	C
08:00-09:00	C	C	C
09:00-10:00	C	C	C
10:00-11:00	C	C	C
11:00-12:00	C	C	C
12:00-13:00	C	C	C
13:00-14:00	C	C	C
14:00-15:00	C	C	C
15:00-16:00	C	C	C
16:00-17:00	C	C	C
17:00-18:00	C	C	C
18:00-19:00	C	C	C
19:00-20:00	C	C	C
20:00-21:00	C	C	C
21:00-22:00	C	C	C
22:00-23:00	C	C	C
23:00-24:00	C	C	C

8.5.2.7 **Record Modes**

- **Continuous**

The Continuous record mode records the selected cameras continuously (non stop).

C

- **Motion**

The Motion record mode records based on any changes made in the camera view. There may be large gaps in the recording time if no motion is detected.

M

- **Sensor** (alarm)

Sensor record mode activates recording based on alarm input activation, for the duration set forth in the Hardware Setup Tab for Alarm Setup.

S

- **Motion + Sensor**

Motion + Sensor records based on activation from Motion and/or an alarm triggered input.

M:S

- **Motion + Prealarm**

Recording based on motion, adding an additional five seconds of video prior to the motion trigger. The five seconds is global and cannot be adjusted.

M:P

- **Sensor + Prealarm**

Recording based on sensor input activation, adding an additional five seconds of video prior to the sensor. The five seconds is global and cannot be adjusted.

S:P

- **Motion + Sensor + Prealarm**

Combines the recording capabilities of recording based on Motion or Sensor activation, adding the additional five seconds of video prior to the Motion or Sensor recording triggers.

M:S:P

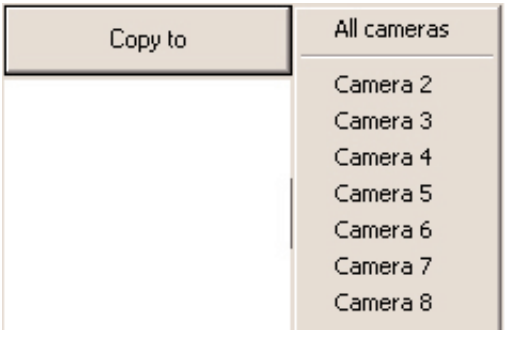
- **None**

If no record mode is selected, the specified camera will not record. This could be used during down times when recording is not necessary to conserve storage capacity.

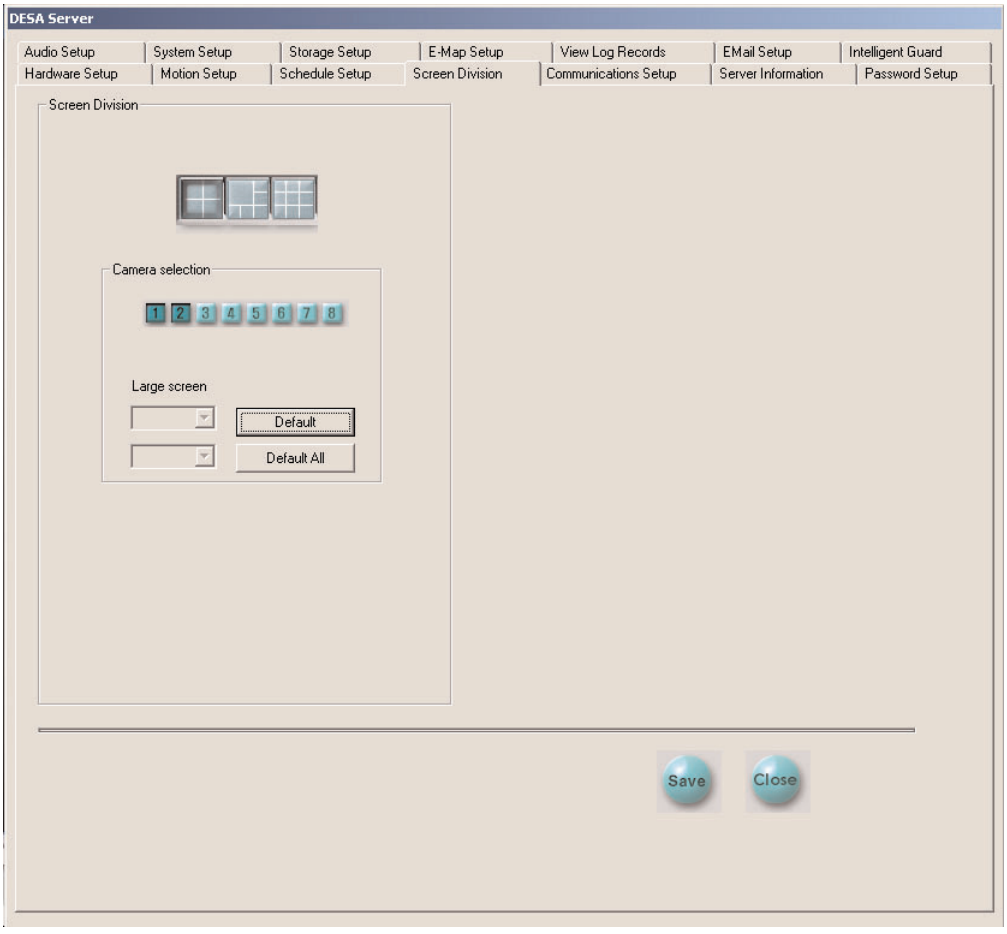
NONE

8.5.2.8 **Copy To**

Copy to is designed to speed the setup process of the schedule. If you set up the schedule for one camera, and you want to copy it to either another camera, or all cameras, click **Copy to** and select the appropriate camera option to copy to.



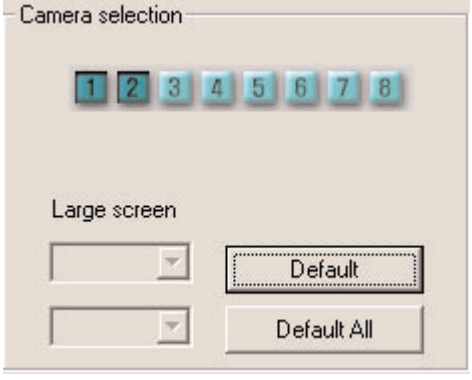
8.6 Screen Division Tab



8.6.1 Selecting Screen Division

Select the screen divisions for setup or modification.

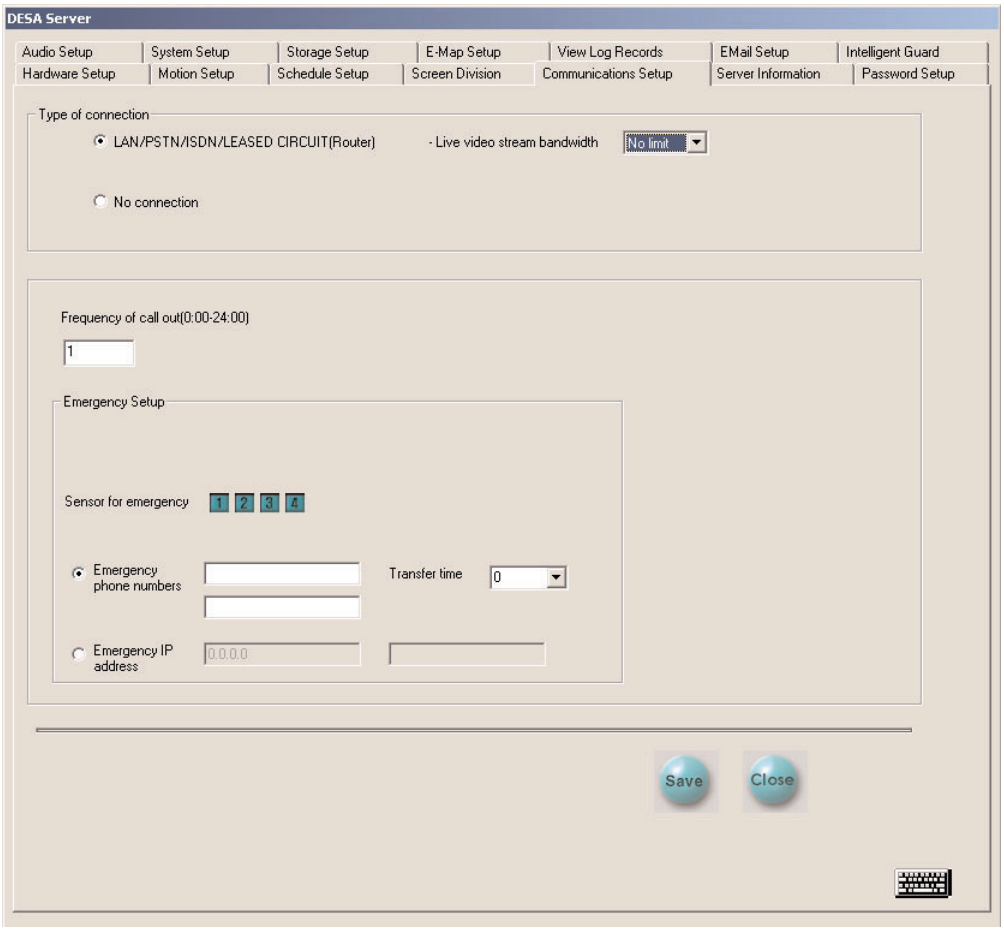
8.6.2 Camera Selection



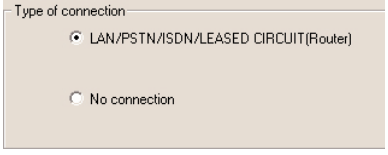
Click on the camera numbers to be displayed or not displayed in each screen division. The darkened buttons are the currently selected cameras, and the lighter buttons are unselected.

- **Large Screen Camera Selection**
  On screen divisions with the option of a Large Screen display, choose the camera to show in that display. Choose one of the selected camera buttons (darkened), otherwise the chosen camera will not display.
- **Default and Default All**
  Default sets the selected screen division as the default. The **Default All** button will default all screen divisions without making any selections.

8.7 Communications SetupTab

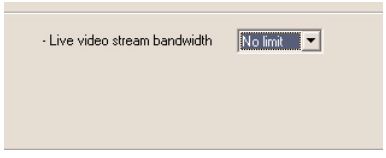


8.7.1 Type of Connection



8.7.1.1 The two types of connections are:

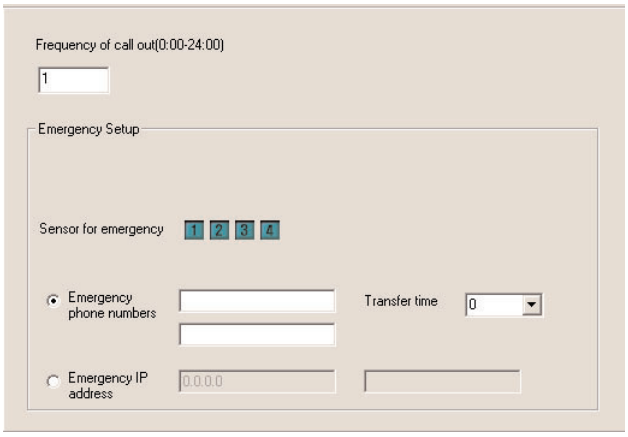
- **LAN/PSTN/ISDN/Leased Circuit (Router)**, all means of communications or
- **No connection**. If selected, remote clients will not be able to connect to the Local Server.



8.7.1.2 Live Video Stream Bandwidth
There are five (5) bandwidth settings per connection:

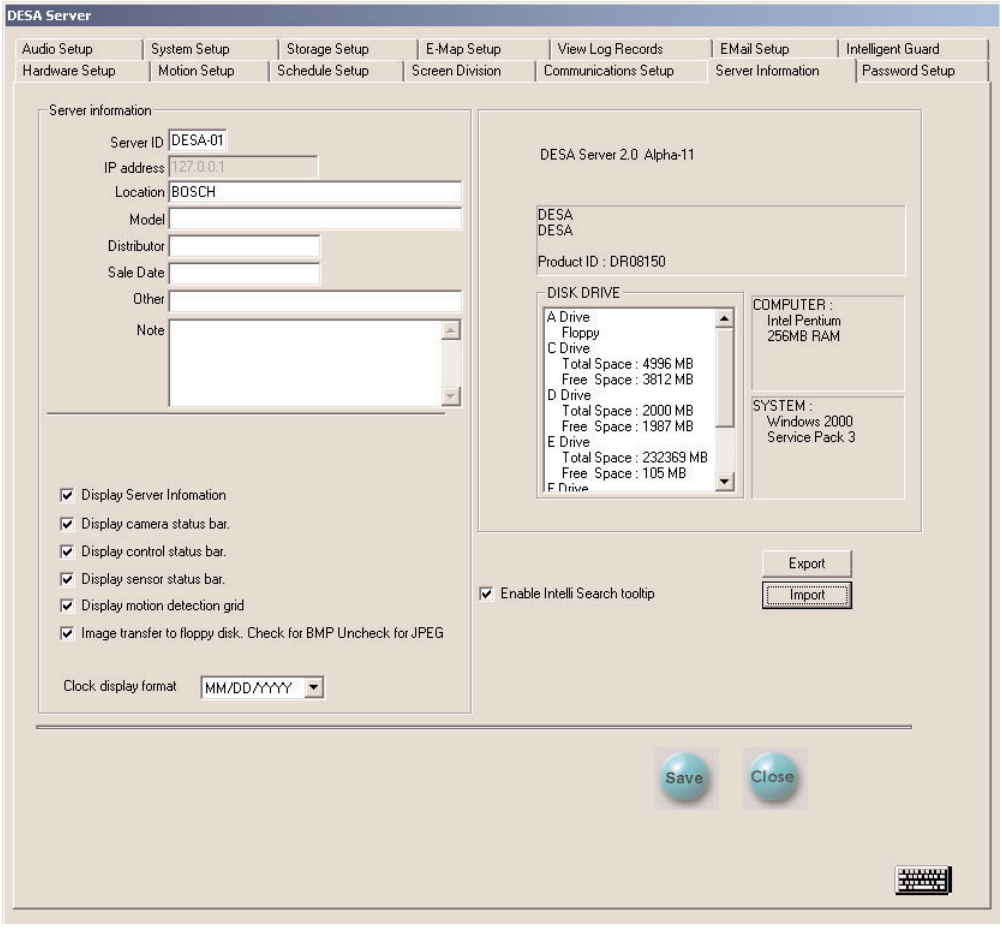
- **256Kbps**
- **512Kbps**
- **768Kbps**
- **.5Mbps**
- **2.0Mbps**

8.7.2 Emergency Setup

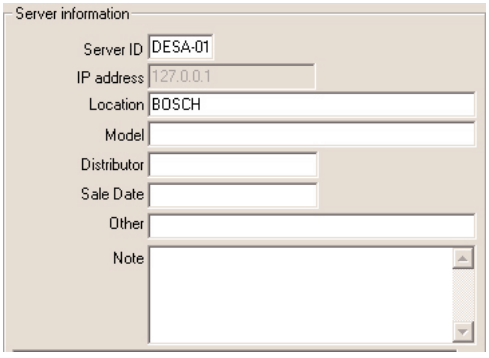


- Select the **Sensor for emergency** by depressing each **Sensor** (Alarm Input) number (darkened) or deselecting (light).
- **Emergency phone numbers** can be used to dial out via a modem (not supplied) to a remote client running the DÉSA8 remote software. This option cannot be used if Emergency notification is done via IP Address (LAN). Two (2) phone numbers may be entered.
- **Emergency IP address** may be via the Internet, LAN, or WAN. Two (2) IP addresses may be entered for Remote Notification.
- **Transfer time** is the time allowed for remote notification to go through and release. If the transmission is not completed within the designated time, the DÉSA8 will stop transmission.

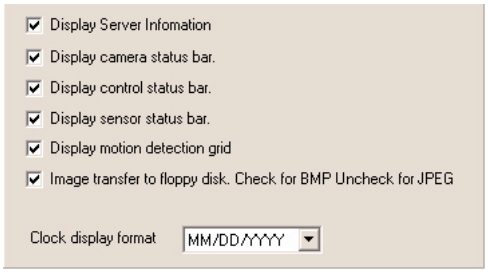
8.8 Server Information Tab



8.8.1 Server Information



- The **Server ID** is used for verification of remote and backup connections. It must be seven (7) characters in length, and be unique for each DÉSA.
- The **IP Address** displays the current server I.P. Address setup under Windows®.
- The **Location, Model, etc.** entries are for convenience, to describe the unit.
- The **Main Display Configuration** options configure the appearance of the main screen.
- Select from three **Clock display formats**.available for time/date display.


Display Server Infomation
Display camera status bar.
Display control status bar.
Display sensor status bar.
Display motion detection grid
Image transfer to floppy disk. Check for BMP Uncheck for JPEG
Clock display format
MM/DD/YYYY

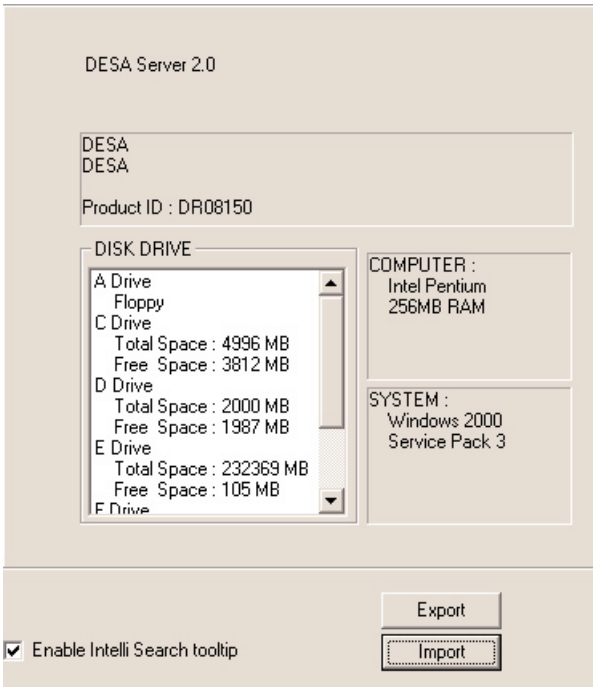
8.8.2 DÉSA8 Server Information

8.8.2.1 **DÉSA8 Version** is shown in the following format: x.xx.

8.8.2.2 **User Name** displays the Windows Operating System logon name.

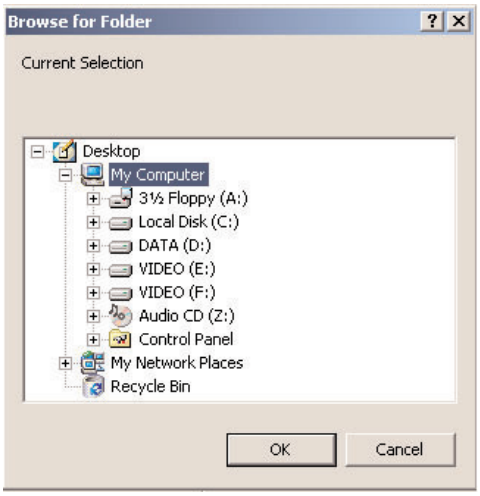
- **Product ID** displays the current configuration model.
- **Computer Name** indicates the current PC name.
- **Disk Drive** indicates the current PC configuration and hard drive space.
- **Computer** indicates the processor type and memory.
- **System** refers to the Operating System and Version.

8.8.2.3 **Enable IntelliSearch Tooltip** IntelliSearch is the graphical display shown when using the server search screen. If deselected, the same type of search display is shown as on the remote.

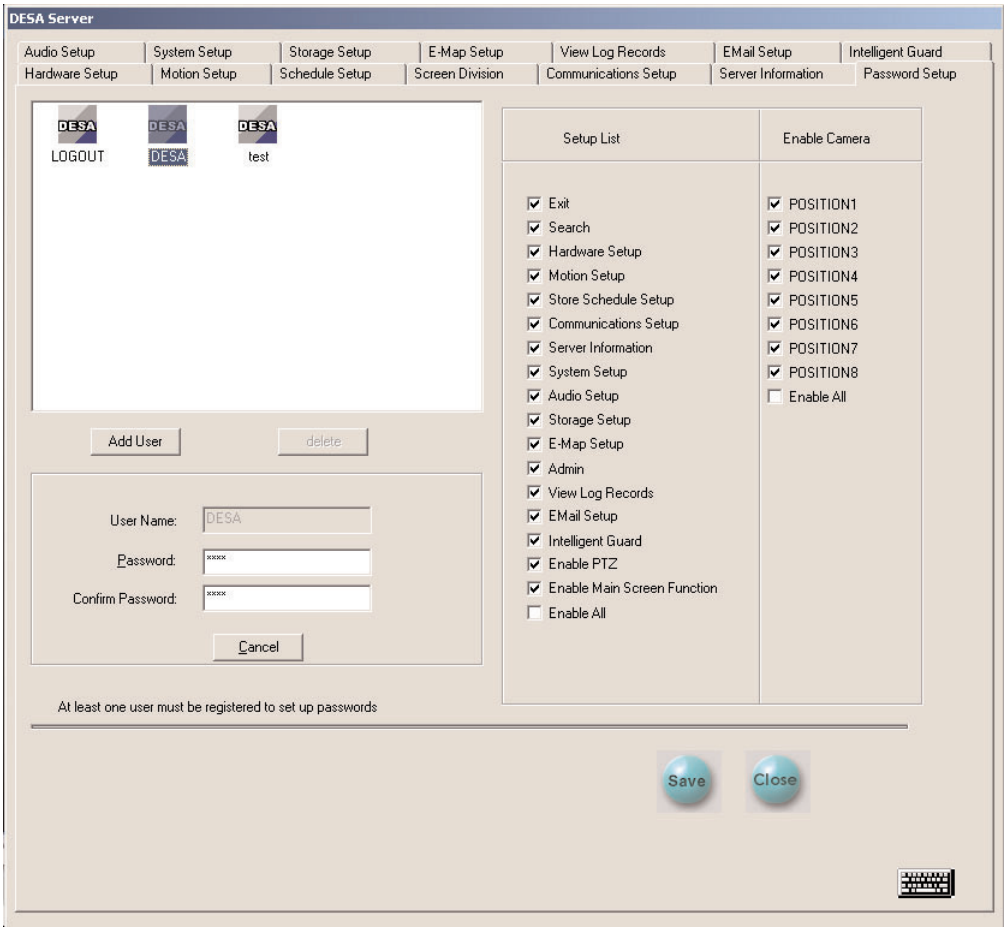


8.8.2.4 Setup Data

- Click **Export** to send a copy of the current DÉSA8 settings to any specified drive. It is recommended to specify a removable media type, i.e. CD, floppy, etc. Assign a meaningful name,to associate to the current setup, i.e. Date, Unit, Location, etc., and click OK.
- Click **Import** to import a system setup. This may require insertion of removable media, i.e. CD, floppy, etc. Select the file to import, and click OK. Restart the PC or Close and Restart the DÉSA8 application.



8.9 Password Setup

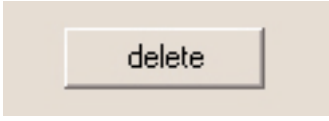


8.9.1 Users

By default, there are two (2) users that cannot be deleted; LOGOUT and DÉSA. There is no need for a password for LOGOUT, however, the DÉSA user password can be changed for security reasons. The DÉSA user is the Administrator, and has all privileges.

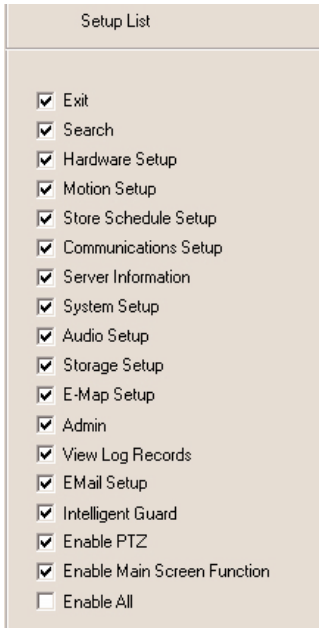
8.9.2 Deleting Users

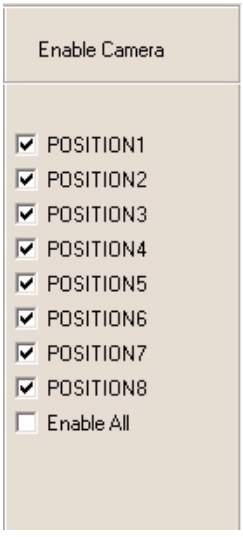
Users can be deleted by selecting the user and clicking **Delete**. You must have access to the Password Setup Tab to delete passwords.



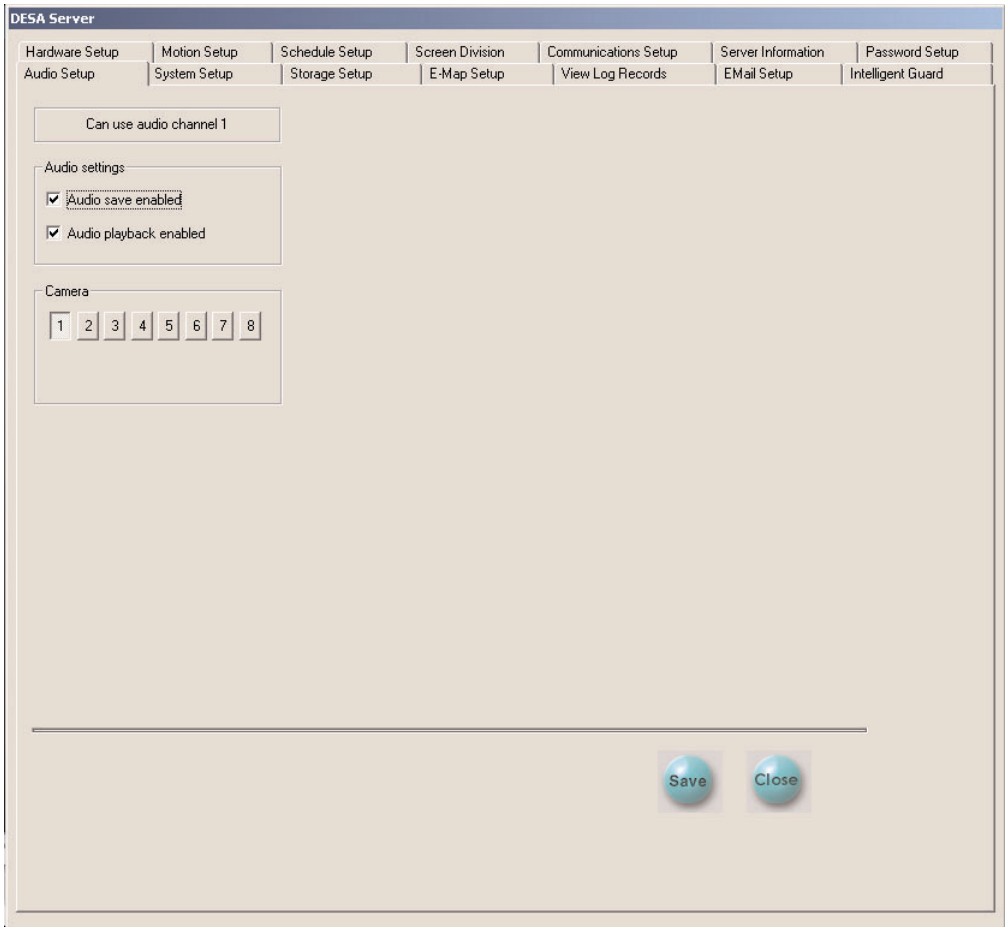
8.9.3 Setup List and Enable Camera

- The Setup List shows all functions available to select or deselect, per user.
- Enable Camera allows enabling and disabling connected cameras, for live viewing. Note that disabled cameras still record.

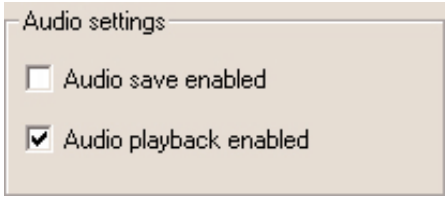




8.10 Audio Setup Tab

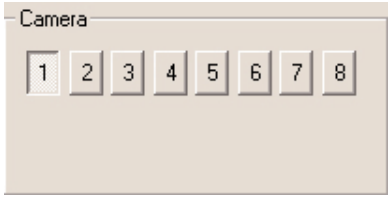


8.10.1 Audio Settings



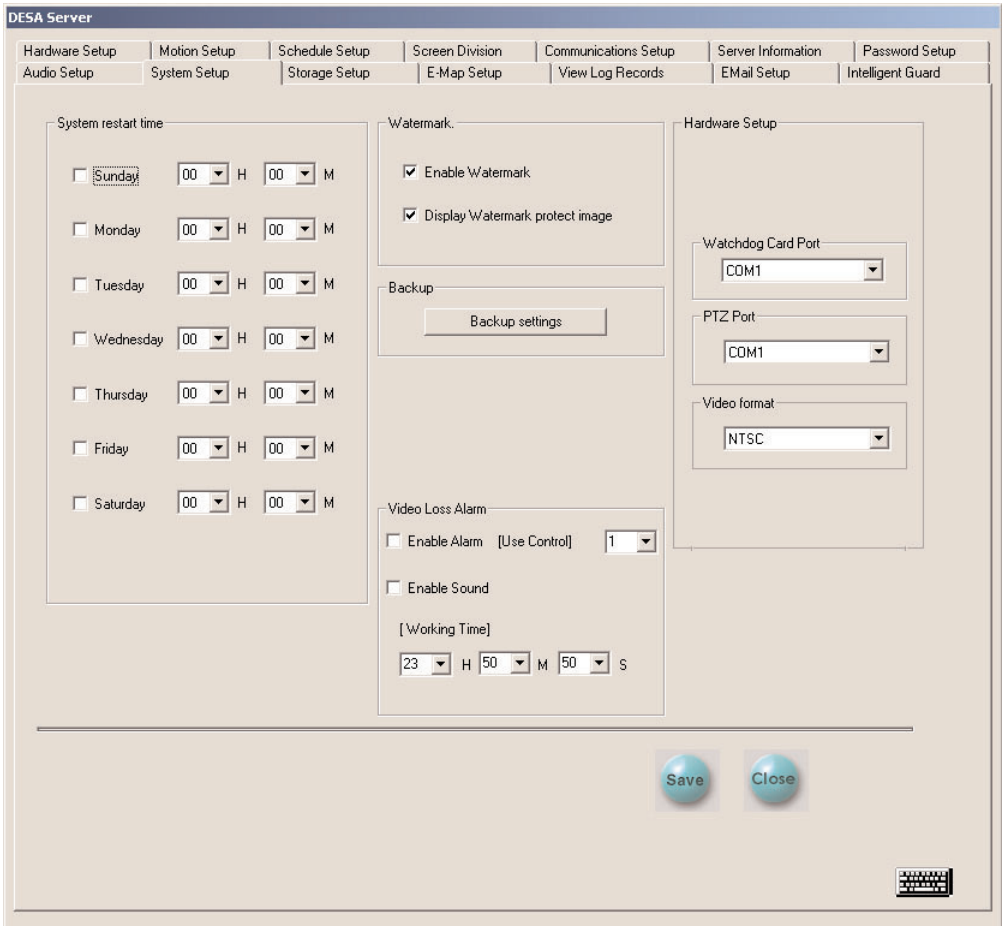
- The **Audio Save Enabled** checkbox allows/ disallows single channel recording of audio onto the system, along with the selected video.
- The **Audio Playback Enabled** checkbox allows/disallows playback of the audio. Audio playback must be enabled in order to review audio with the video.

8.10.2 Camera



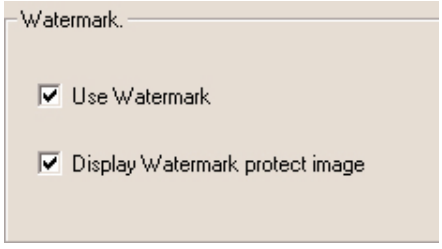
Select the camera that is to have the audio recording associated with it.

8.11 System Setup Tab

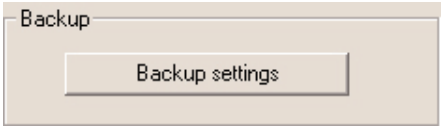


8.11.1 Watermark

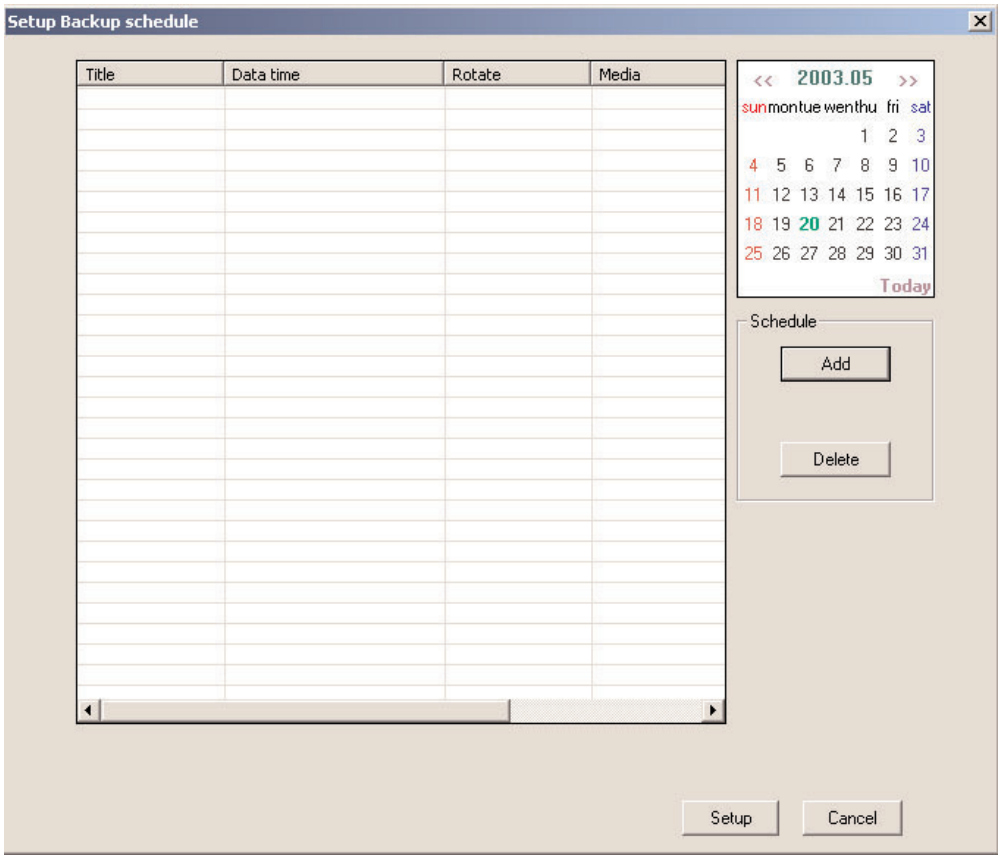
Checkbox selection to **Enable Watermark**, or not. Select **Display Watermark protect image** for visual indication that watermarking is enabled.



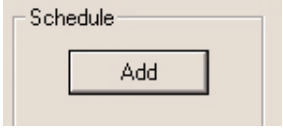
8.11.2 Backup



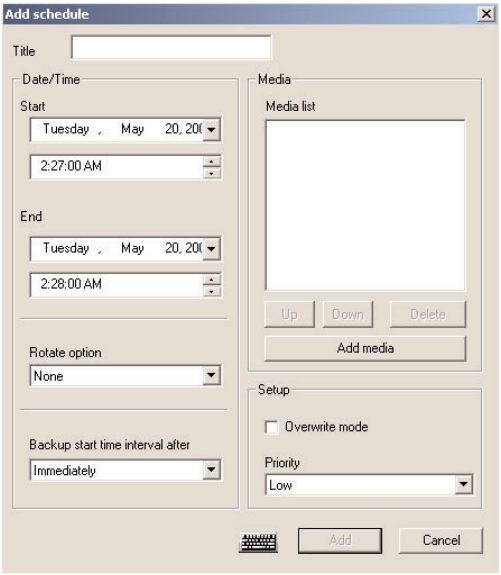
Click **Backup Settings** to open the *Setup Backup Schedule* screen. Use this function to set a schedule for the system to backup on a one time, weekly, monthly, or yearly basis.



8.11.2.1 Set Up Backup Schedule



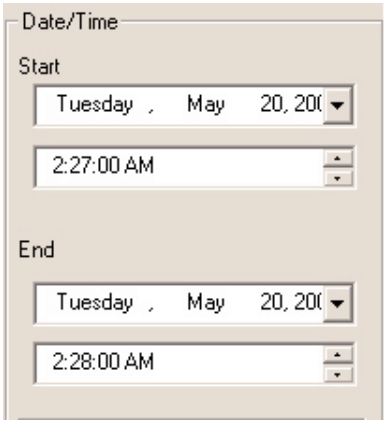
Click Add to add a schedule. The Add schedule window below is displayed.



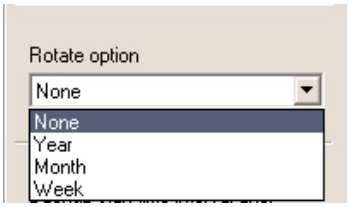
8.11.2.1.1 **Title** is the name of the schedule being set.

8.11.2.1.2 **Date/Time** is the desired time frame for the backup to occur.

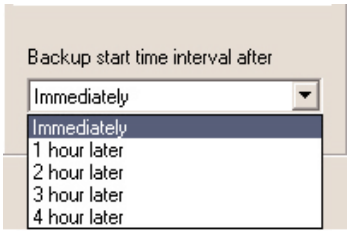
NOTE: **Date/Time** is limited to a 24-hour period, and must be for future dates only. Start time and date are set for a time when the scheduled backup is to begin. End time and date are set for a time when the scheduled backup is to end.



8.11.2.1.3 The **Rotate Option** is used to schedule a backup on a regular basis. Options are: None (one time), Weekly, Monthly, and Yearly.



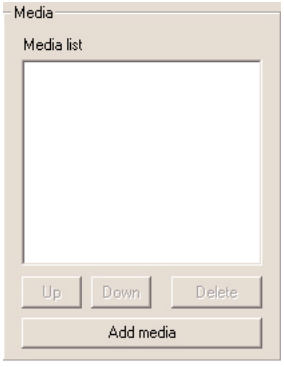
8.11.2.1.4 **Backup start time interval** after Options are immediately, or for 1 to 4 hours. Backup time is set for after the End time/date.

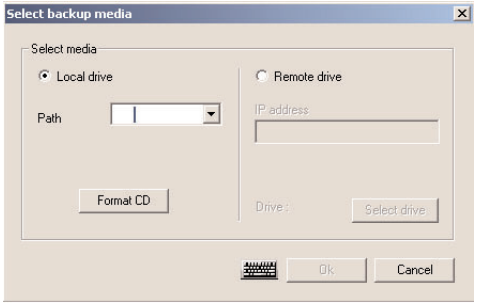


8.11.2.1.5 Media

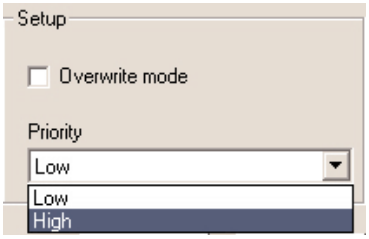
Click **Add Media** to open the drive selection box. Select any local drive(s), or a remote drive. For redundancy, multiple drives can be set as backup locations.

NOTE: To backup to a remote drive, the remote software must be loaded and running (minimized), in order for the remote connection to occur.





8.11.2.1.6 Setup



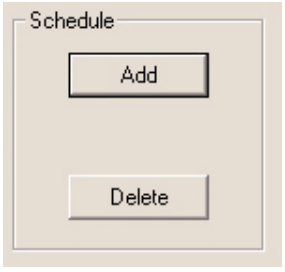
Check the Overwrite mode checkbox to automatically erase files if there is insufficient space.

Priority can be set to either Low or High. If set to Low, the system will queue the backup. If set to High, the backup will immediately begin, before all other queued backups.

8.11.2.1.7 Add and Cancel

Click Add so the schedule will take effect.
If unsure of the scheduling process, click Cancel.

8.11.2.2 **Delete**

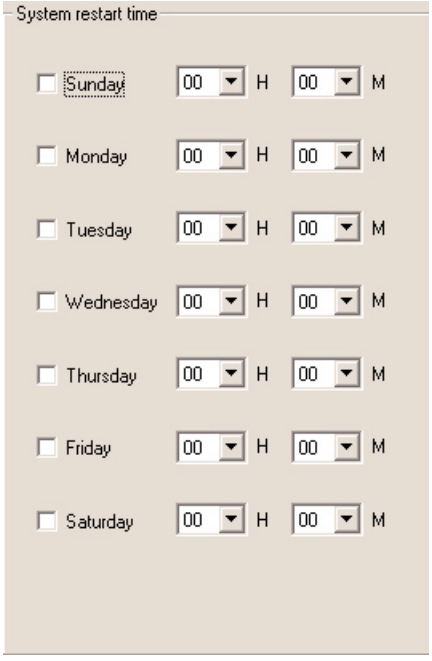


To **Delete** an existing schedule, select the schedule to be deleted from the list and click **Delete**.

8.11.2.3 **Setup**

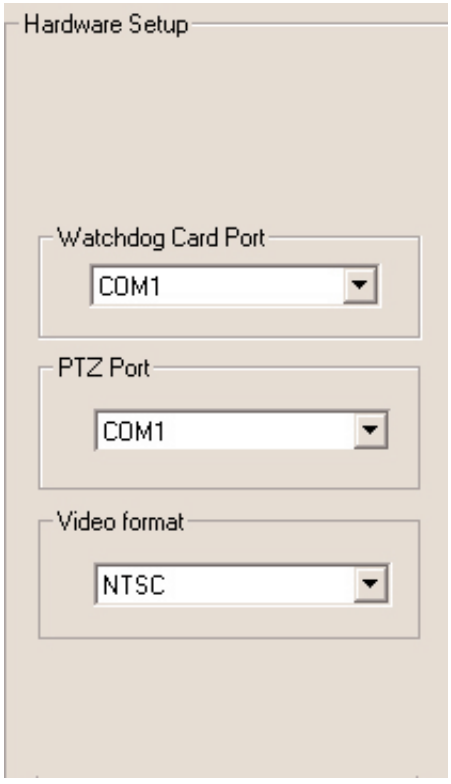
Once Backup Schedule Setup is complete, click **Setup** to enable the Backup Schedule.

8.11.2.4 **System Restart Time**


System restart time
Sunday 00 H 00 M
Monday 00 H 00 M
Tuesday 00 H 00 M
Wednesday 00 H 00 M
Thursday 00 H 00 M
Friday 00 H 00 M
Saturday 00 H 00 M

It is recommended, but not required, that the system be restarted on a regular basis, to free up resources.

8.11.3 Hardware Setup Tab

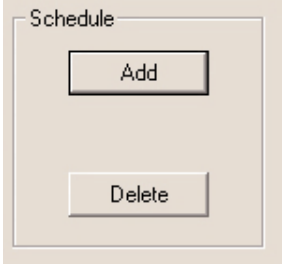


8.11.3.1 **Watchdog Card Port**
This port is assigned for communication between the software and the Watchdog Card. It is recommended that this port remain COM1.

8.11.3.2 **PTZ Port**
This port can be assigned to COM1 or COM2. It is recommended that the this port remain COM1 if using various manufacturers PTZ.

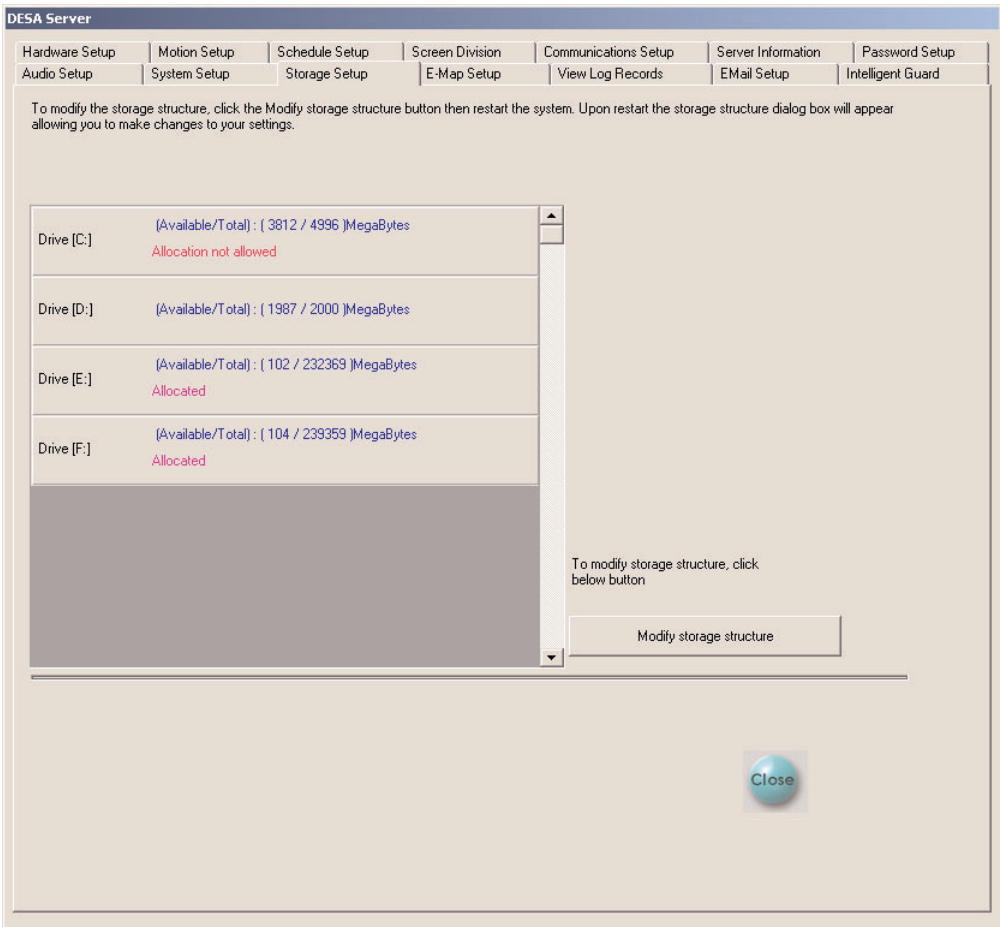
8.11.3.3 **Video Format**
Options are NTSC or PAL. Typically, this setting should be NTSC.

8.11.4 Video Loss Alarm



Video Loss Alarm can be enabled to trigger a control output and/or an audible sound. It can also be set to be enabled during certain times of the day.

8.12 Storage Setup Tab

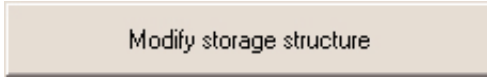


8.12.1 Storage Display

The Storage Display screen shows the currently allocated drives for the OS, and all video storage.

8.12.2 Modify Storage Structure

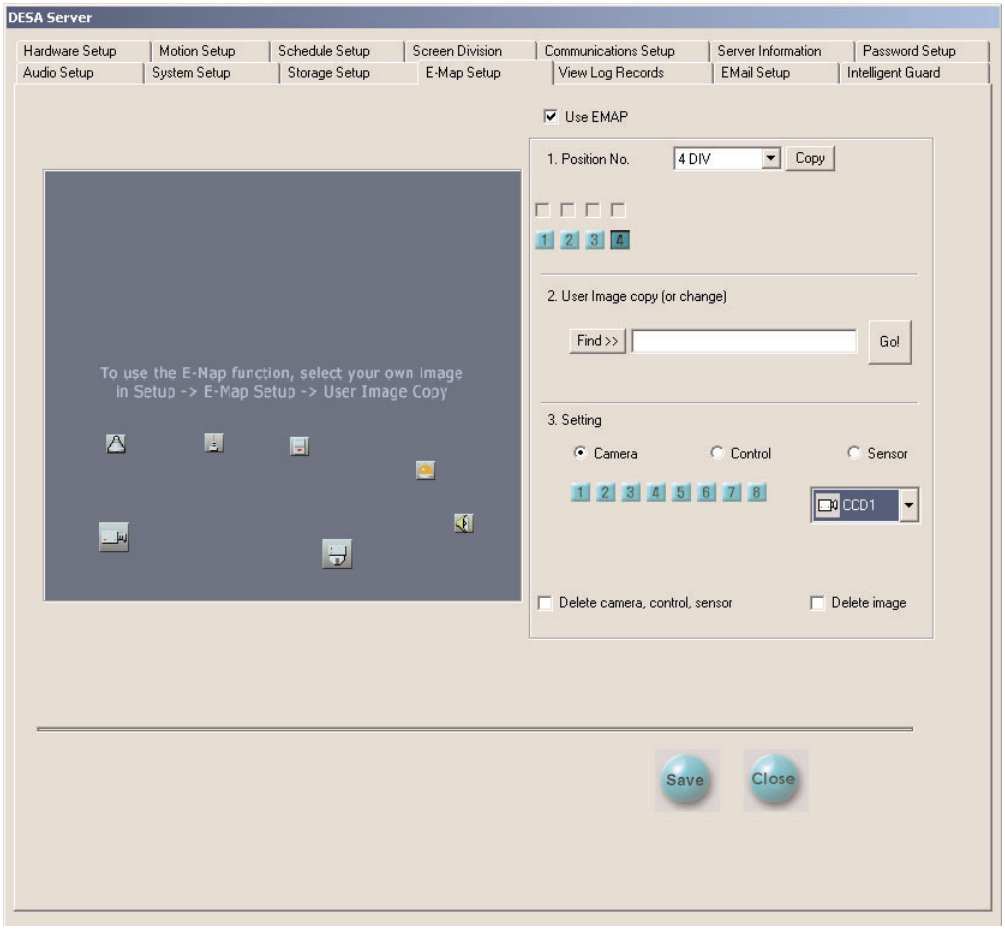
Click Modify Storage Structure to:



- Purge video that is already stored on the allocated hard drives.
- Allocate new storage space for video storage. Example: To add a DVAD JBOD Array, once connected to the unit, the drive space must be allocated for video storage.

NOTE: Arrays can be added without deleting any of the exsisting stored video. Only click allocation buttons for the unallocated space.

8.13 E-Map Setup Tab

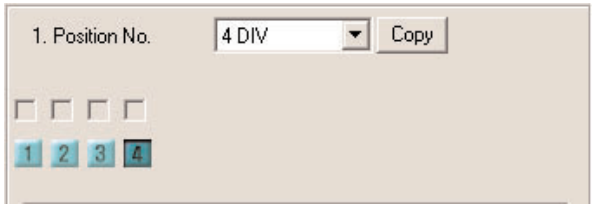


8.13.1 Use E-Map Check Box

E-Map must be enabled (via this check box) to be used.

8.13.2 Position No.

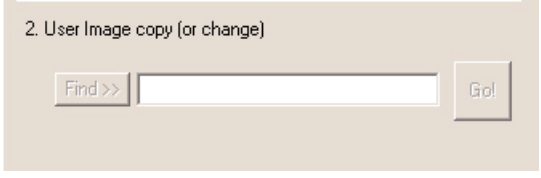
Select the position of the E-map for any or all divisions., then select the cameo postion for the E-map.



NOTE: The E-map can be set up in one division, and then copied to another division in any cameo location. The E-map will take up the camera position in the screen division.

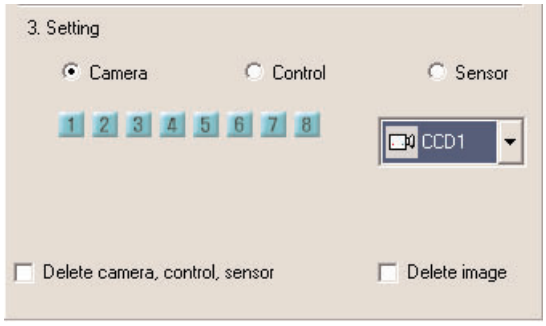
8.13.3 User Image Copy (Or Change)

Click Find, which opens the Windows dialogue box to allow searching of any drive or media present on the system. Once the directory is specified, click Go, and the image will be loaded.



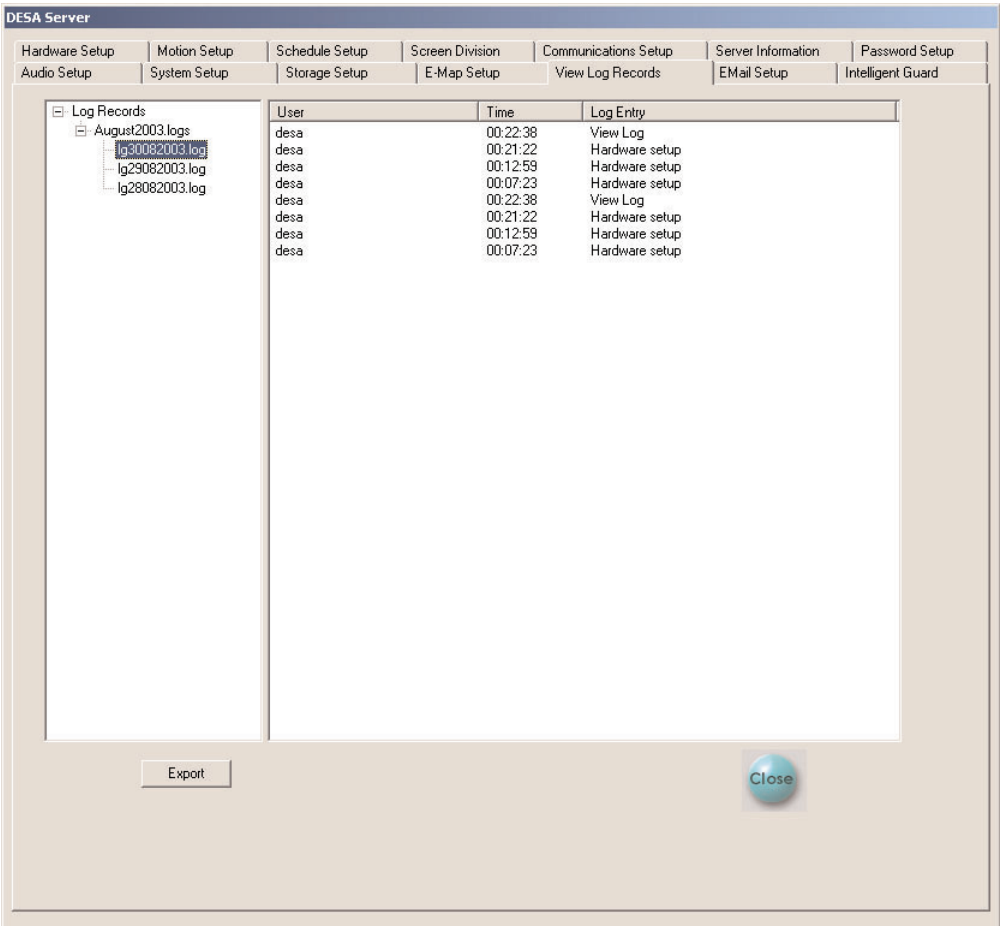
NOTE: The image must be a .BMP format.

8.13.4 Setting



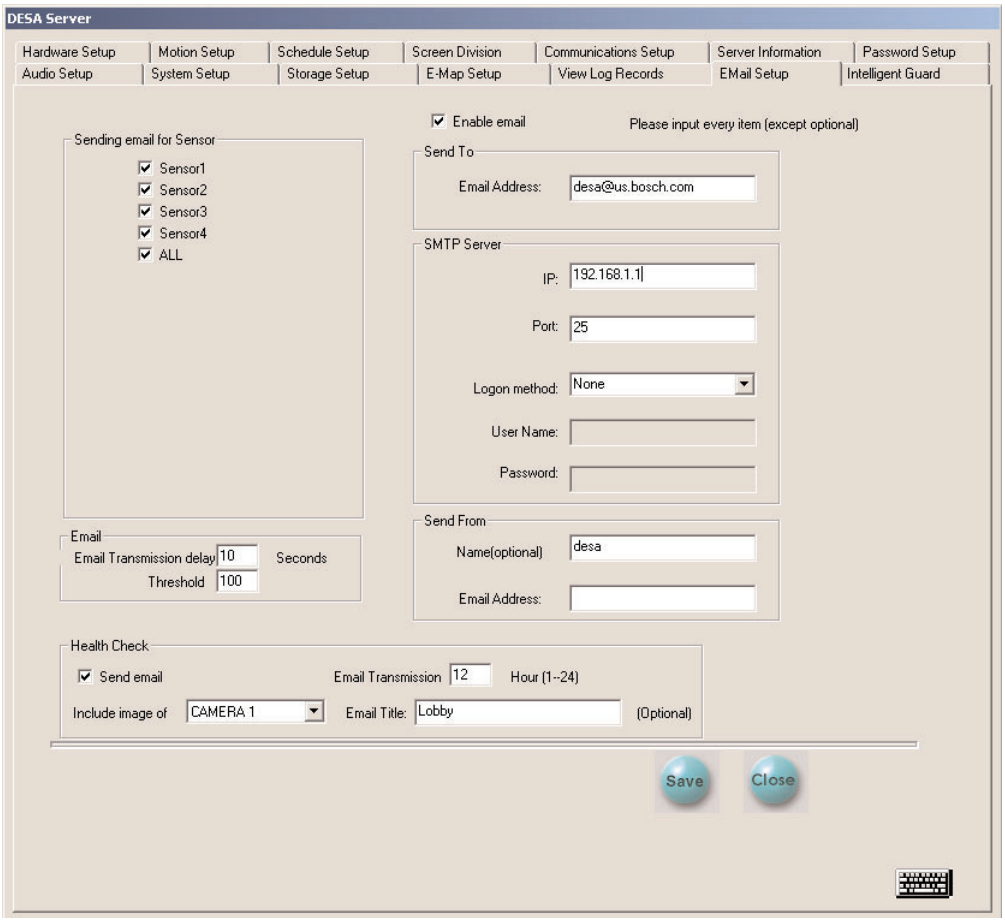
Once the .BMP has been imported, to place cameras on the E-map, check the **Camera** check box and select the camera number and desired icon type for the camera. Repeat for **Control** and **Sensor**. To delete an item from the E-map, check the **Delete camera, control, sensor** check box and click on the items to be removed. Checking the Delete image check box will delete the loaded image when Save is pressed.

8.14 View Log Records Tab

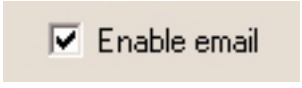


Logs all activity of the system, by the user that is logged in. The **Export** button on the **View Log Records** screen allows storage of events to disk or removable media, in text format, for later review or archiving.

8.15 E-mail Setup Tab



8.15.1 Enable E-Mail



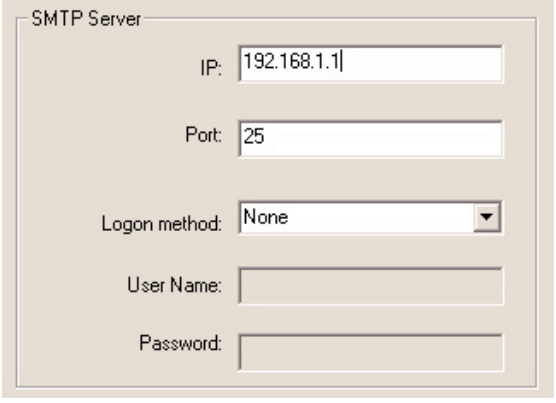
This should be checked to enable E-Mail

NOTE: E-mail Setup is required to be setup for e-mail option to be used in Intelliguard.

8.15.2 Send To

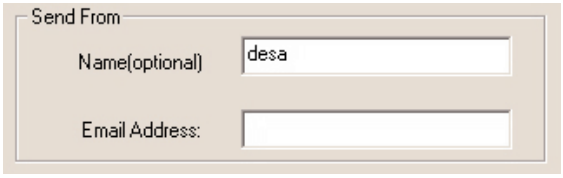
- **E-mail Address:** Enter only one e-mail address

8.15.3 SMTP Server



- **IP:** Can be either the IP address of the SMTP Server or the account (ie. mail.comcast.net).
- **Port:** Typically 25 but can be changed to the appropriate port of the SMTP Server.
- **Logon Method:** Select the type of authentication or user access.
- **User Name:** The User name used to access the SMTP Server.
- **Password:** The Password used to access the SMTP Server.

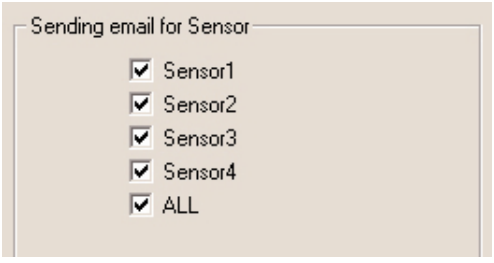
8.15.4 Send From



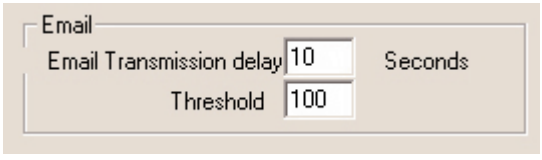
- **Name (Optional):** Used to described the system that the e-mail is coming from (ie. DESA-01).
- **E-mail Address:** The e-mail address that the e-mail is coming from.

8.15.5 Sending E-mail for Sensor

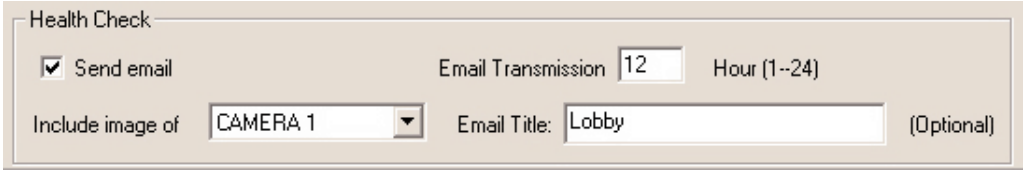
Select any or all sensor to send an e-mail if the input is triggered.



8.15.6 E-mail



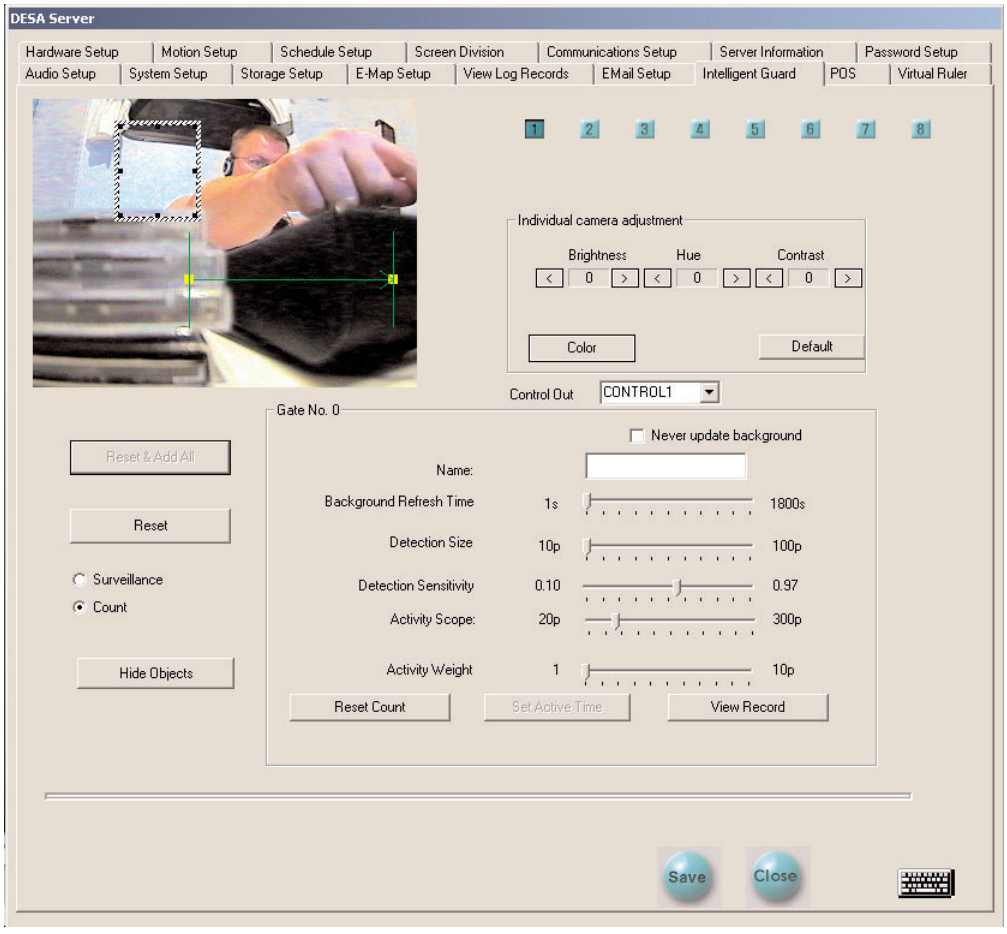
- **E-mail Transmission Delay:** Set a delay in seconds to delay e-mail transmission.
- **Threshold:** The time after the delay to allow for the transmission to go thru.



8.15.7 Health Check

- **Send E-mail:** Check if you want a Health Check e-mail sent.
- **E-mail Transmission:** Set how often the health check should be sent in a 24 hour period.
- **Include Image Of:** Select the Camera that you would like sent as a JPEG to the e-mail address.
- **E-mail Title:** Enter an e-mail title for the Health Check e-mail.

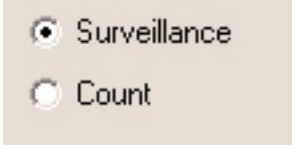
8.16 Intelligent Guard

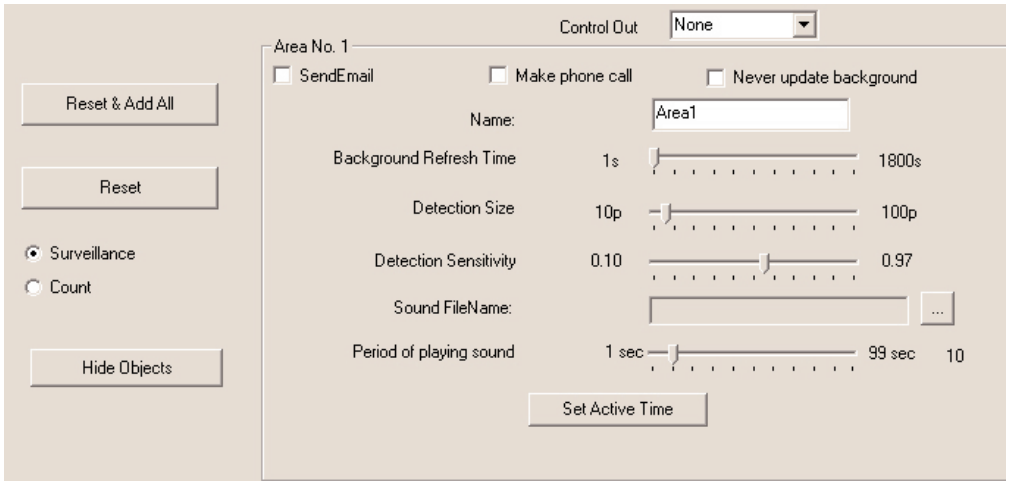


Intelligent Guard functions are: Surveillance (without POS installed), and Count (only installed with POS).

8.16.1 Surveillance

Surveillance allows six (6) independently configurable areas of detection to be set. Each area can be configured to send an E-mail, make a phone call, play a sound file, and trigger a control output.





8.16.1.1 **Control Out**
Allows the activity to trigger a Control Output.

8.16.1.2 **Area No.**
Displays the area of detection currently being configured.

8.16.1.3 **Send E-mail**
E-mail Setup must be configured for E-mail to function. Refer to E-mail Setup (in this manual).

8.16.1.4 **Make Phone Call**
If a modem is connected to the system, the system can dial out to a remote PC with the DESA remote running.

8.16.1.5 **Never Update Background**
Background of the detection area does not refresh.

8.16.1.6 **Name**
Assign a name to the detection area.

8.16.1.7 **Background Refresh Time**
Seconds of time to refresh the image being captured.

8.16.1.8 **Detection Size**
The number of pixels used for detection of an object.

8.16.1.9 **Detection Sensitivity**
Sensitivity of the pixel area of the Detection Size.

8.16.1.10 **Sound File Name**
Allows selection of a .WAV file to be played if an object is detected.

8.16.1.11 **Period of Playing Sound**
Duration that the sound should play.

8.16.1.12 **Set Active Time**
Allows a specific time to be set for the area to be active. This is set on an hourly basis.

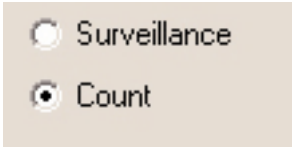
8.16.1.13 **Reset & Add All**
Deletes all areas and selects the entire picture area.

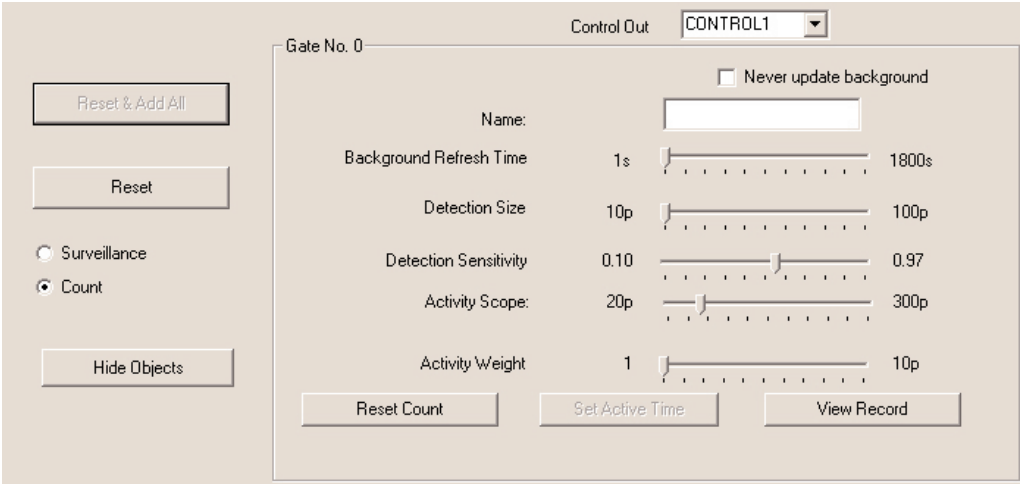
8.16.1.14 **Reset**
Removes all items in the picture area.

8.16.1.15 **Hide (or Show) Objects**
Displays/hides the pixel detection area.

8.16.2 Count

Allows three (3) directional counters to be set on the video, to track movement in a certain direction and count that movement.





8.16.2.1 **Background Refresh Time**

Seconds of time to refresh the image being captured.

8.16.2.2 **Detection Size**

The amount of pixels used for detection of an object.

8.16.2.3 **Detection Sensitivity**

Sensitivity of the pixel area of the Detection Size.

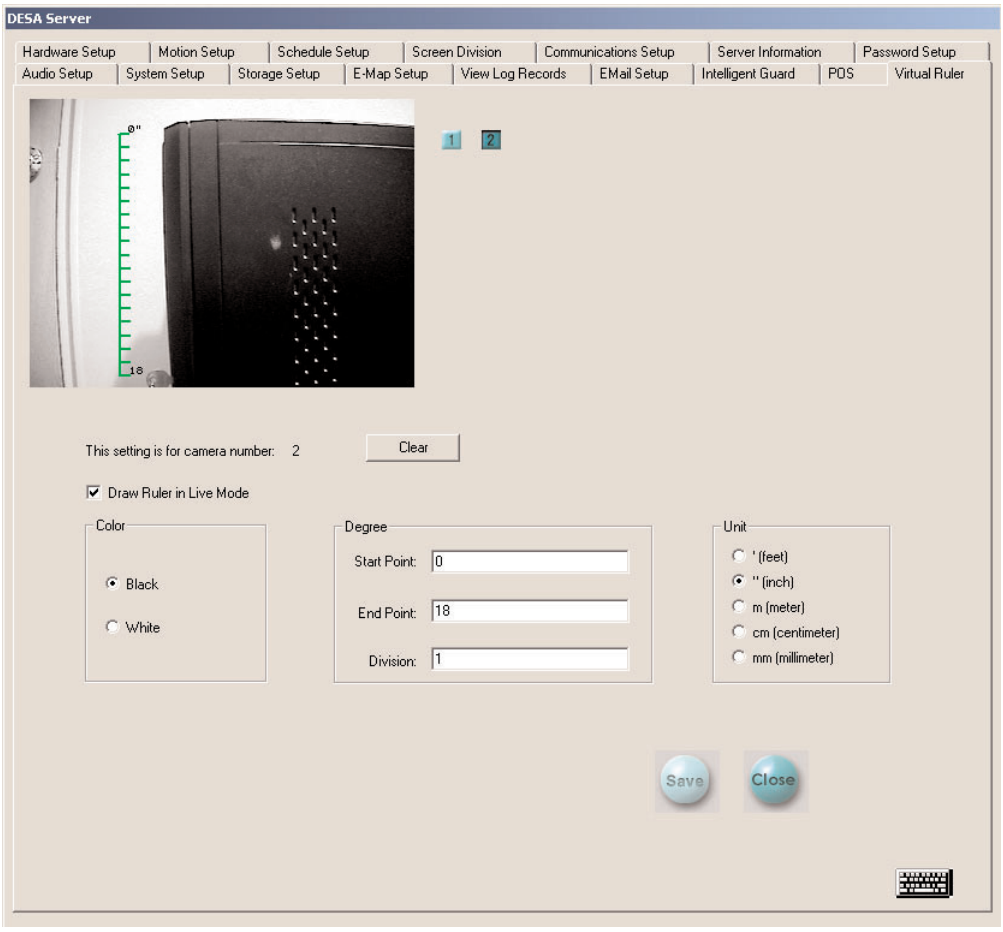
8.16.2.4 **Activity Scope**

The total scope for Activity.

8.16.2.5 **Activity Weight**

The amount of pixels in the activity scope that create the moving object to be captured.

8.17 Virtual Ruler Tab

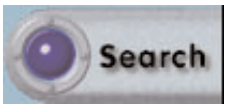


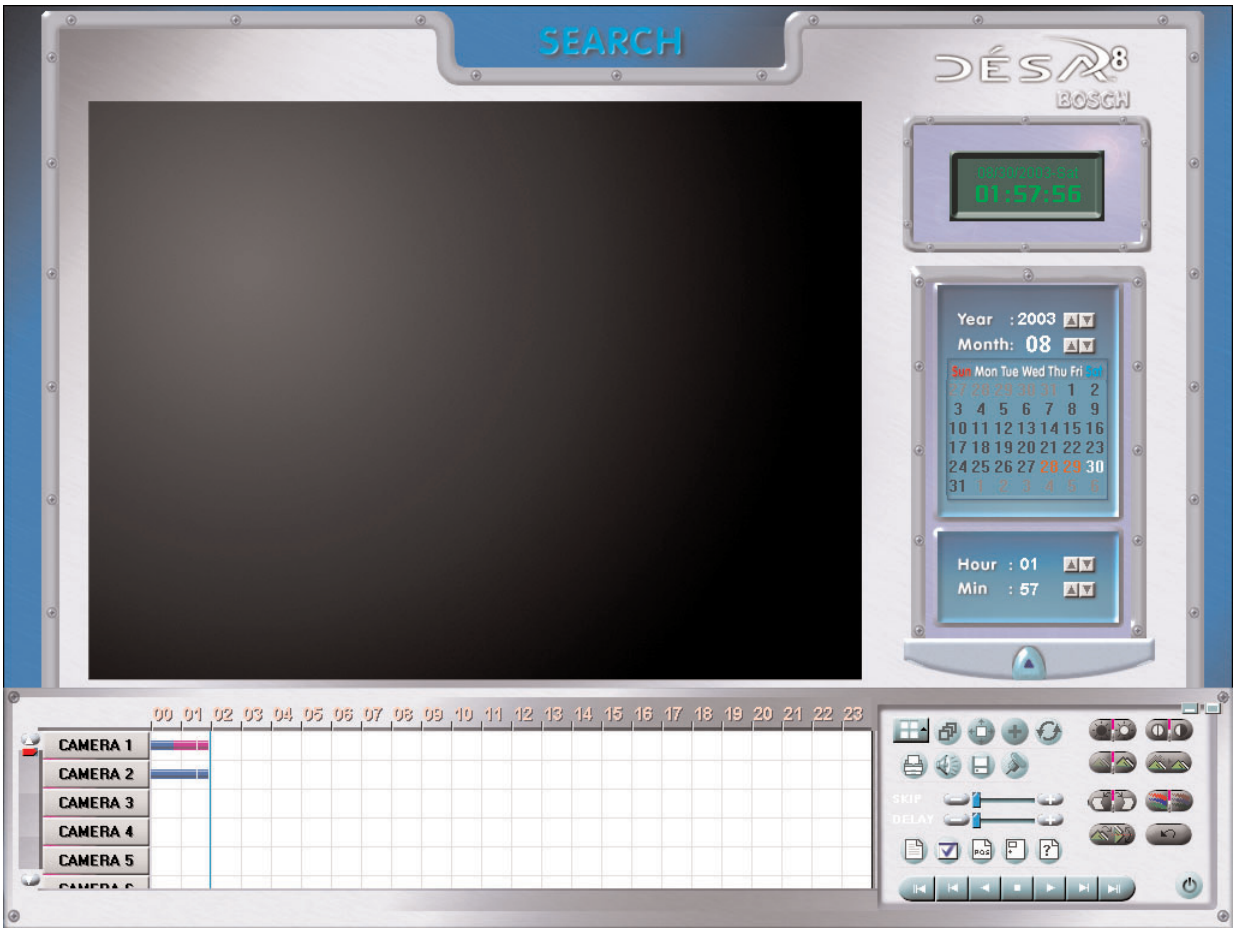
The **Virtual Ruler** is a line of measurement for the height or length of an object. The line should be drawn in the direction of the starting (lowest) measurement. Then select the **Degrees** and **Units**. If the ruler is to be displayed in Live Mode, select the color of the line to be displayed, and recorded on the video whether it is displayed or not.

9 SEARCH

9.1 Search Button (from Main Display)

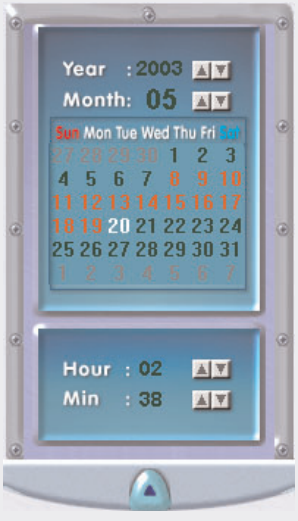
Click Search to open the Search Screen.





9.2 Calendar

Year and Month, Days of the Month, and Hour and Minutes of the day are displayed. Days of the month are shaded three colors if the system has been recording for one day or more.



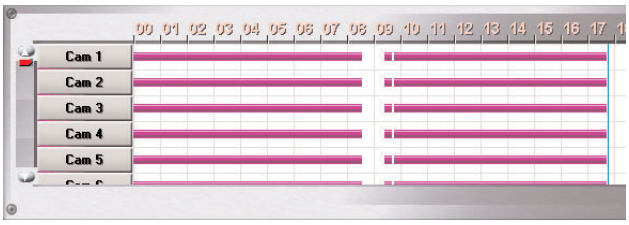
9.2.1 The first color is black - this represents no recorded video for that day.

9.2.2 The second color is red - this represents that there has been some type of recording for that day.

9.2.3 The third is yellow - this represents that there is recording for that day, which is the current day, but another day is selected.

9.2.4 The last is white - which represents the current day recording and the current day is selected.

9.3 IntelliSearch Graphical Display

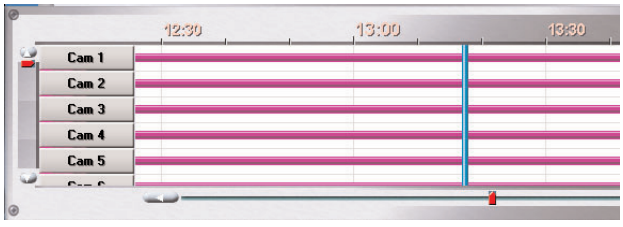


This graph displays the recorded information in detail and gives a colored indication of what type of recording occurred. The graph is based on a 24hr period and can be zoomed in by clicking on the hours at the top of the graph.

9.3.1 The color bars depict the type of recording that occurred as follow:

- **Pink** – Continous Recording
- **Blue** – Motion Recording
- **Red** – Alarm Recording
- **Green** – Pre-Alarm Recording
- **None** – Indicates that there has been nothing recorded

9.4 Selecting Information Playback



To playback video simply select the year, month, and day and select which cameras to view. Simply click on the graph on the approxiamate time and the blue start bar will move there.

9.5 Screen Divisions Icons

Selecting this icon will allow quick selection of multiple cameras for playback.

9.6 Panorama/Thumbnail Search Icon

Clicking this icon will enable the **Thumbnail search**. Select 1 camera and select the type of screen division the thumbnails will be displayed in. To unselect the thumbnail search simply click on the icon to toggle it off.

9.7 Screen Resize Icon

If the recorded images are recorded at less than 640x480 resolution you can resize a lesser resolution up to 640x480. A single image must be selected. To select a single image left click inside the cameo.

9.8 Zoom In/ Zoom Out/ Move Icon

Left clicking on this icon will switch to the next type of icon. During playback when a camera is left clicked on, it enlarges to full screen. By right clicking on the image you can digitally zoom in, zoom out, or move around inside the screen by right clicking and holding the button while moving.

9.9 Refresh Icon

Refreshes the graphical recording display during a search.

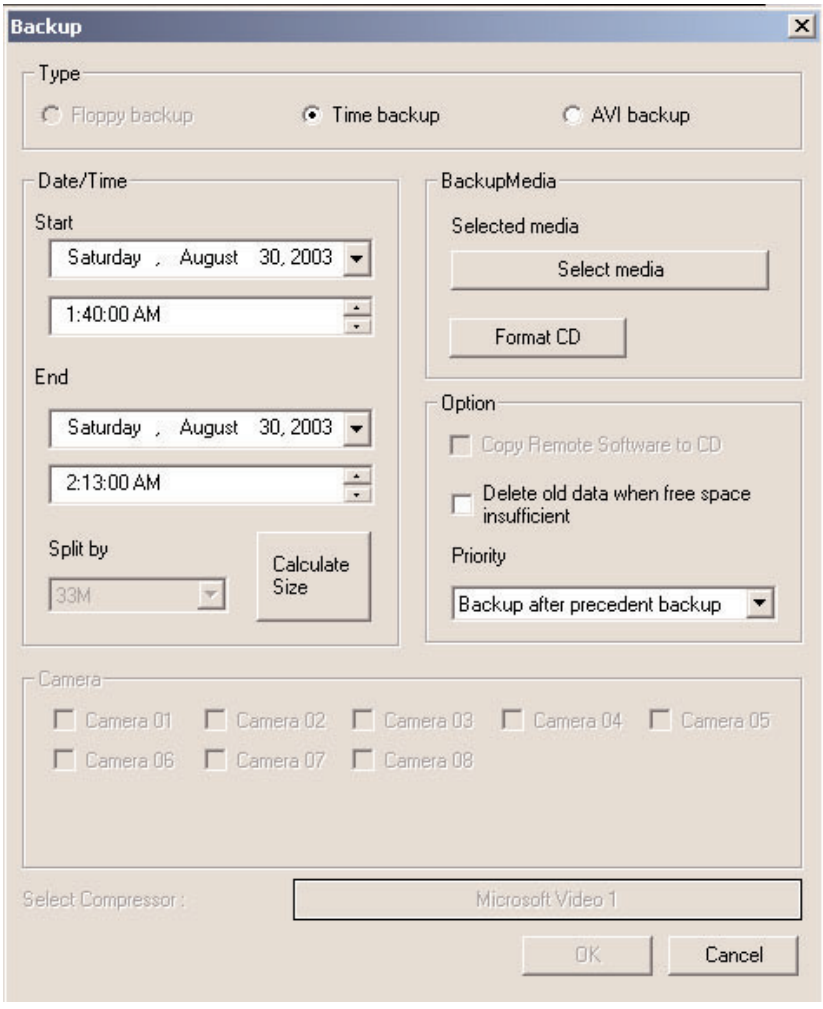
9.10 Printer Icon

By connecting a printer to the system you can print image directly to a printer. Left click on the image to pull it full screen. Once the image is full screen you can click on the printer icon and print the picture.

9.11 Backup Icon

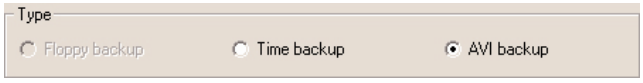
Click to display the Backup screen.

9.11.1 Backup Screen



9.11.1.1 Type

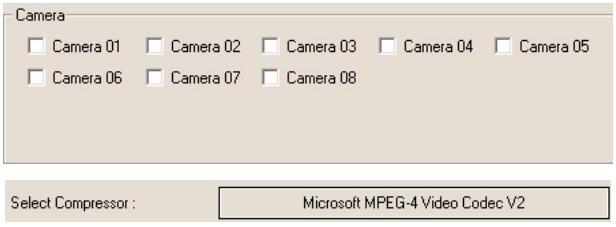
There are three types of backups to choose.



- **Floppy Backup**
  To do a floppy backup, you must first left click on the cameo, pulling it full screen, that you want to backup and then click the backup button. Note: This option only allows for backups of image not clips.
- **Time Backup**
  Selecting the time backup allows for clips to be archived to some type of media. Selecting this option will backup all cameras for the selected time.
- **AVI Backup**
  AVI Backups allow the off loading of video clips peer camera. They are off loaded in a format that can be read on most any computer.

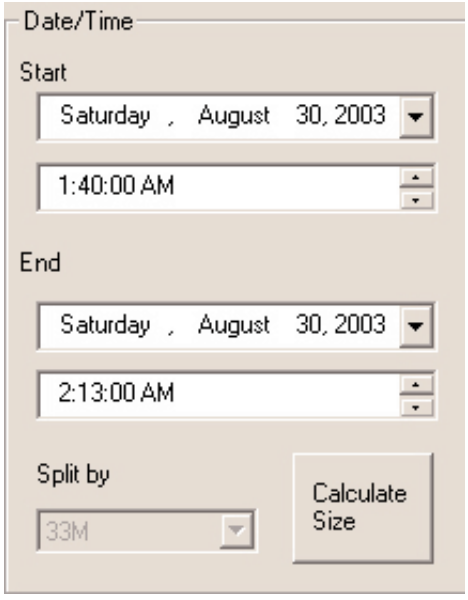
  Camera
  Select the individual cameras that are to be backed up.

  Select Compressor
  Select the AVI compressing method.



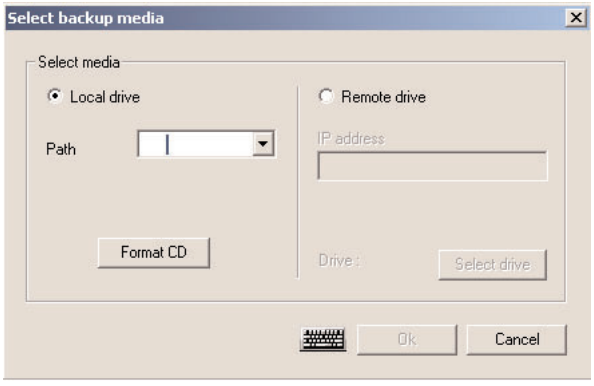
9.11.1.2 Date/Time

Select the date and time for the video clips that are to off loaded. Click on the Calculate Size button to make sure that the clip does not exceed the media size. If backing up as AVI it can be broken up into various clip sizes by selecting the Spilt By dropdown menu.



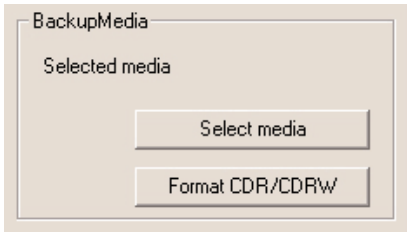
9.11.1.3 Backup Media

Clicking on the Select Media button opens a drive selection box. You can select any local drives or a remote drive.

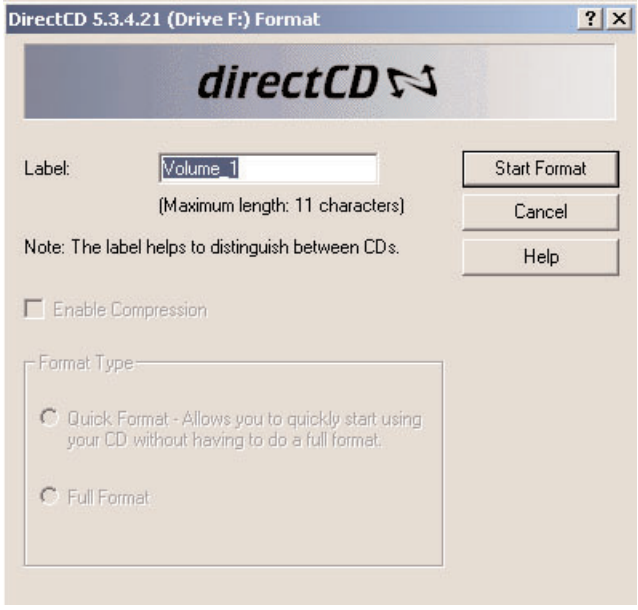


NOTE: To do a remote drive the remote software must be loaded and running minimized for the remote connection to occur.

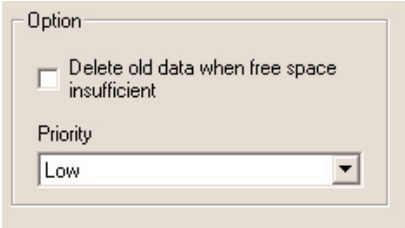
- **Format CD**
  If using a CD as the media for a backup, the CD must be formatted first. There are two options at which you can select to format. It can be done from the Select Backup Media screen or from the Backup screen.



- *Roxio Direct CD Utility*
  Once the Format CD is selected **Roxio Dircet CD** Utility will launch. This utility will format the CD so that it can be a backup media ready for video clips. Insert a CD and click on the **Format CD** button. It will then prompt for a label with a maximum of twelve characters.



9.11.1.4 Option

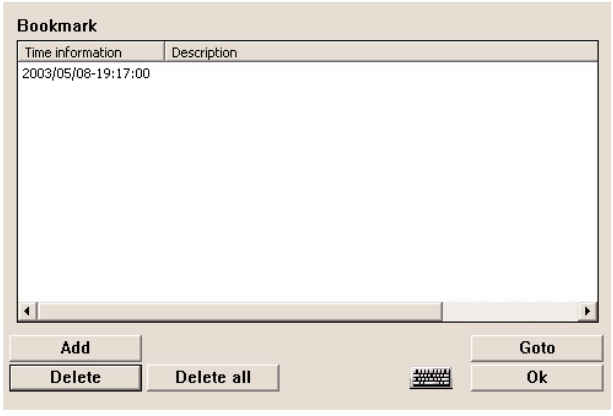


Checking the box for, Delete old data when free space insufficient, will automatically overwrite any drive that has previous archives.

- **Priority**
  Setting the priority to Low or High tells the system when to backup or to put the backup into a queue.

9.12 Bookmark

Click on the bookmark icon if you want to set a bookmark for a certain point in the playback screen. The starting point must be selected before the icon is pressed. Once you click the icon the following screen will appear.



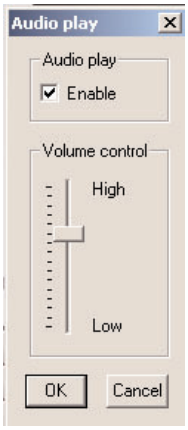
- Click Add button to import the starting date and time. It will provide for a description of the bookmark.

NOTE: If the added bookmark of a clip is overwritten then the bookmark will no longer work. The bookmark will only work before the clip is overwritten.

- Click **Delete** to delete the selected bookmark
- **Delete All** deletes all bookmark entries.
- **Goto** locates you at the start date and time of the video clip's selected bookmark.
- Click O**K** to save the added bookmark.

9.13 Audio Icon

Audio can be disabled from playing back and the volume can be adjusted.



9.14 Image Enhancement

Brightness
Adjusts the brightness for stored images.

Contrast
Adjusts the darkness of black and white shadings.

Smoothness/Sharpness
Smooths out the roughness/blurriness in the stored video image.

Noise Reduction
Eliminates noise stored in the video image.

De-skew
Corrects twisted or skewed video images by flattening or rotating the images for better viewing.

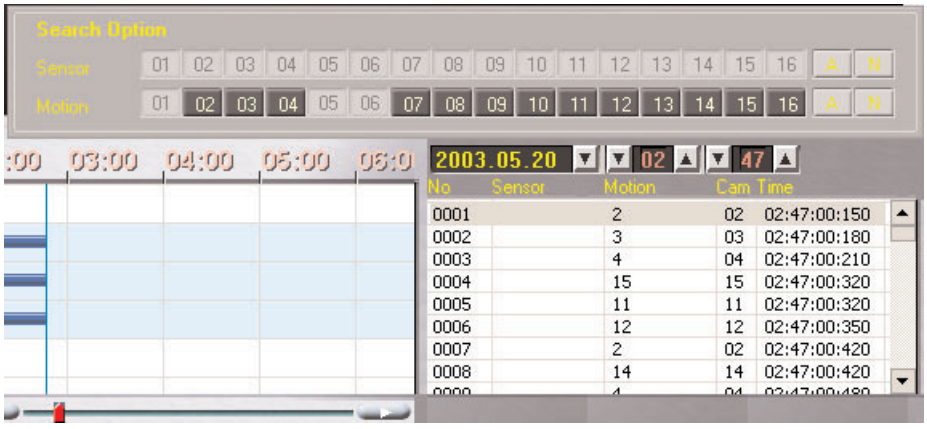
Gamma
Adjusts the value between brightness and contrast for use correction when the color of stored video is abnormal.

Rotation
This adjustment is used to consecutively rotate the direction of the stored image by 90, 180, or 270 degrees. The image can also be flipped from the rotated angle.

Restoration
Returns the controlled video image (by each button) to its original condition.

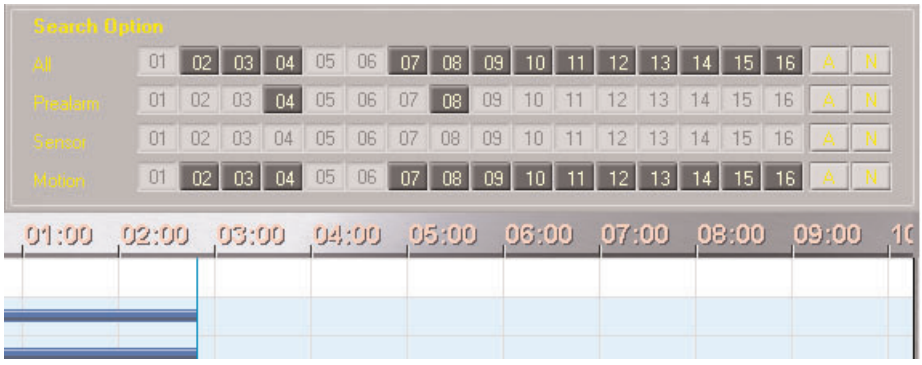
9.15 Index Search

Opens a window to select certain types of recordings that have occurred for each camera. It will display an index of the events that have occurred.

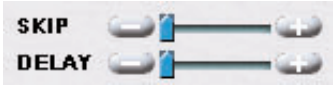


9.16 Index Search Panel

This option is used to narrow a search to a certain type of recording.



9.17 Skip and Delay Sliders



By moving the Skip slider in the positive or negative direction frames can be skipped, for a faster search. The Delay slider enables video playback at the rate it was recorded, or slower.

10 DESA8 REMOTE CLIENT GUIDE

10.1 System Requirements

- Processor: Pentium III, Pentium 4 or AMD minimum of 500Mhz
- Memory: 128MB RAM minimum, 256MB recommended
- Video: 16MB dedicated video RAM minimum, 32MB recommended. We recommend ATI Rage or Radeon, or nVidia gForce graphics boards. The software does NOT support video cards based on the SiS or Riva TnT2 chipsets.
- Monitor: SVGA or XVGA set to 1024x768 resolution at 60Hz refresh rate
- Hard Disk: 200MB of free disk space
- Operating Systems: Windows 98SE, Windows 2000 Pro SP3 or Windows XP Pro.
- Browser: Internet Explorer 5.5 or greater is required

NOTE: In the case of installing the Remote Client software, it is important to upgrade the version of Windows Scripting is 5.2 or greater. Versions below 5.2 will cause issues with installation.

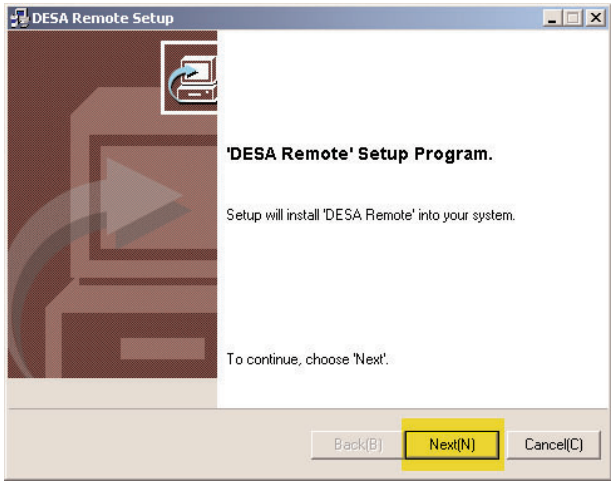
10.2 Loading the DESA8 Remote Client

The Software is located on the DESA8 Client Software CD contained in the two CD package with the unit.

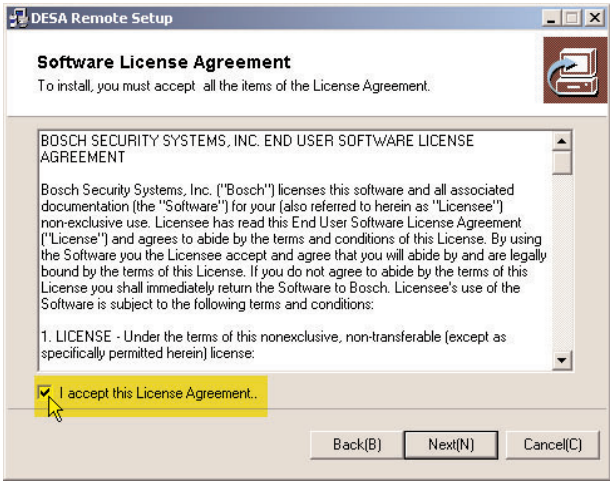
Insert the CD. If autorun is enabled on your PC the CD will automatically launch the install application. If not, then click **Start/Run** and browse to the CD drive containing the disk. Select the Autorun.exe file and Click **Open**, then **OK** and launch the installation application.

Click **Remote** to launch the InstallShield application to install the **Remote View Client**. If a previous version of Remote Viewer is already installed, then remove this version first before installing an updated version.

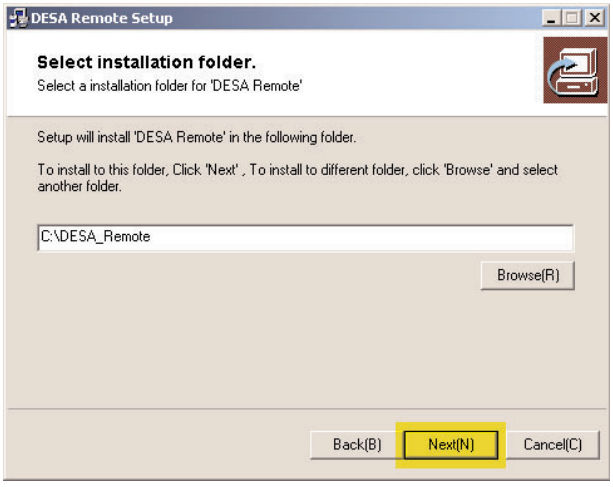
Click **Next**



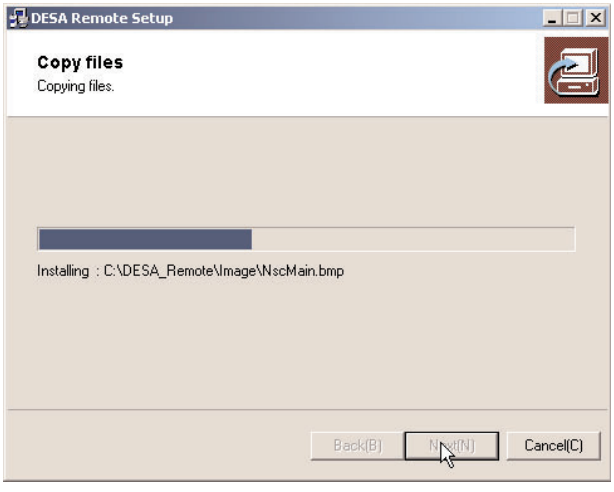
Click **Next**


DESA Remote Setup
Software License Agreement
To install, you must accept all the items of the License Agreement.
BOSCH SECURITY SYSTEMS, INC. END USER SOFTWARE LICENSE AGREEMENT
Bosch Security Systems, Inc. ("Bosch") licenses this software and all associated documentation (the "Software") for your (also referred to herein as "Licensee") non-exclusive use. Licensee has read this End User Software License Agreement ("License") and agrees to abide by the terms and conditions of this License. By using the Software you the Licensee accept and agree that you will abide by and are legally bound by the terms of this License. If you do not agree to abide by the terms of this License you shall immediately return the Software to Bosch. Licensee's use of the Software is subject to the following terms and conditions:
1. LICENSE - Under the terms of this nonexclusive, non-transferable (except as specifically permitted herein) license:
I accept this License Agreement..
Back(B)
Next(N)
Cancel(C)

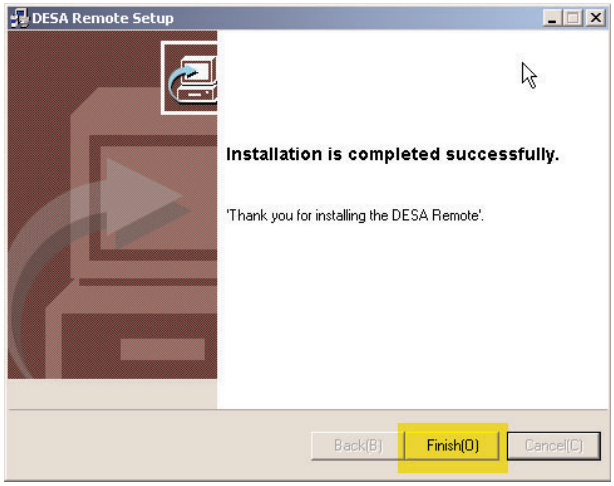
Click **Next**


DESA Remote Setup
Select installation folder.
Select a installation folder for 'DESA Remote'
Setup will install 'DESA Remote' in the following folder.
To install to this folder, Click 'Next' , To install to different folder, click 'Browse' and select another folder.
C:\DESA_Remote
Browse(R)
Back(B)
Next(N)
Cancel(C)

Click **Next**



Click **Finish**

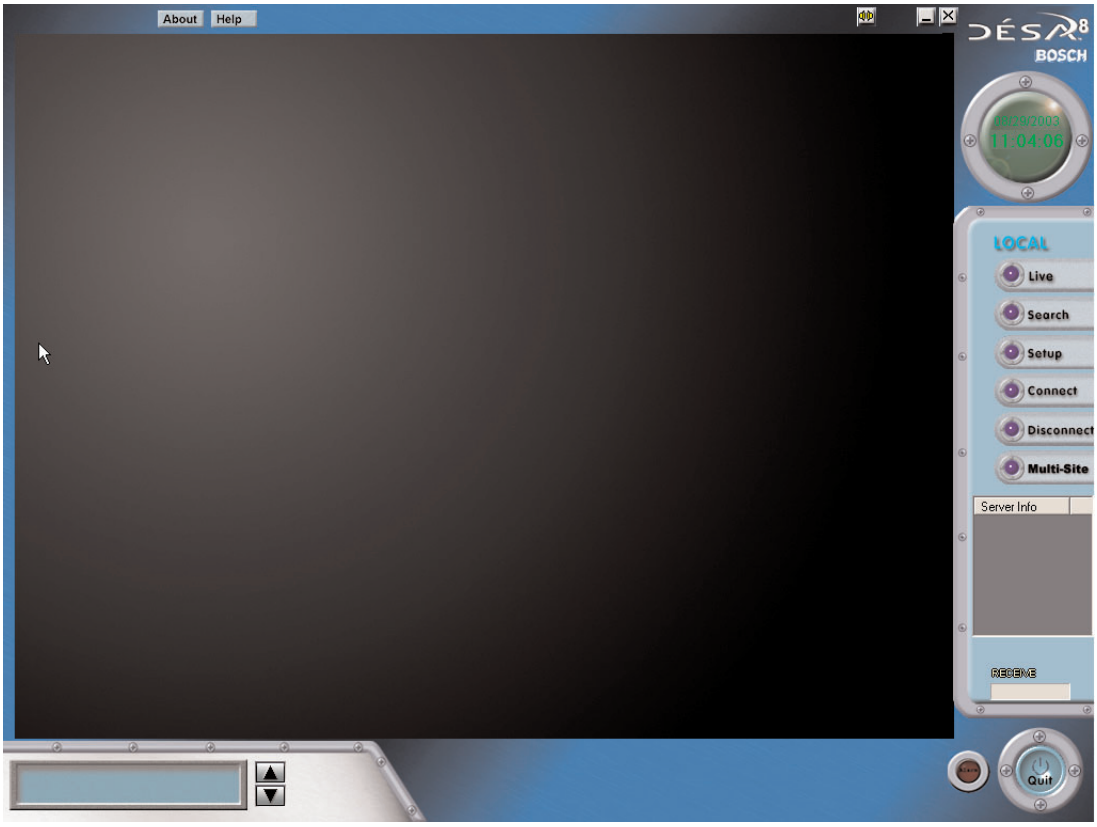


10.2.1 Launching the DÉSA8 Remote Client for the First Time

Double Click the DÉSA8 Remote icon on the desktop. (This is also accessible from the **Start/Programs/Startup** folder in the Start menu.)

10.3 DESA8 Remote Display

A brief tour of the Remote Client main screen is in order. Some of the buttons on the right will provide a function in both the Connected state and the Disconnected state. These are the SEARCH and SETUP buttons. Before a connection has been made, the SEARCH button will search the Backup video saved on the Remote Computer or on CDs and the SETUP button will configure how the Remote Client software is configured. After connection, the SEARCH button will search for video on the local DÉSA8 unit and the SETUP button will allow a subset of the DÉSA8 Server settings to be modified.



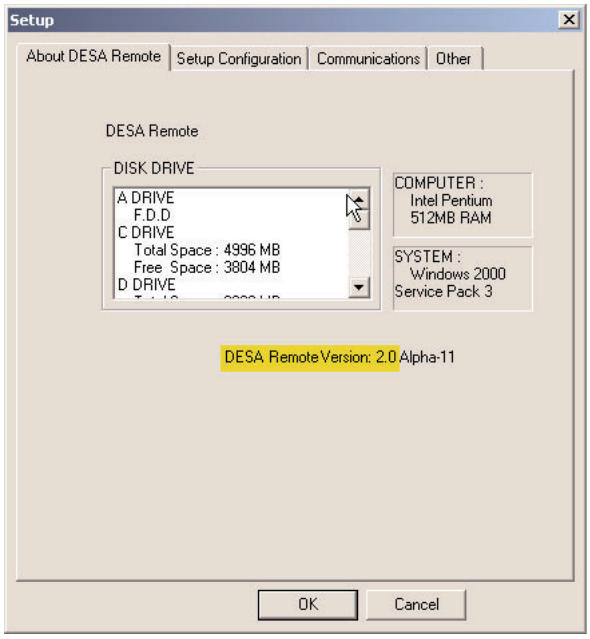
- The **LIVE** button will only work when the Remote is connected to at least one DÉSA Server. When it is clicked to activate the live feed, the button will change and display STOP.
- The **CONNECT** button provides the selection and connect function while the **DISCONNECT** button will disconnect the active Desa Server once the Live feed has been stopped.
- The **LOGIN** button provides the login prompt to log into the target DESA Server.
- The **MULTI-SITE** button is only applicable after the remote station is connected to more than one DÉSA Server and will allow the user to click and drop cameras on the remote view screen from amongst the various servers.

10.3.1 Setup Button Before a Connection

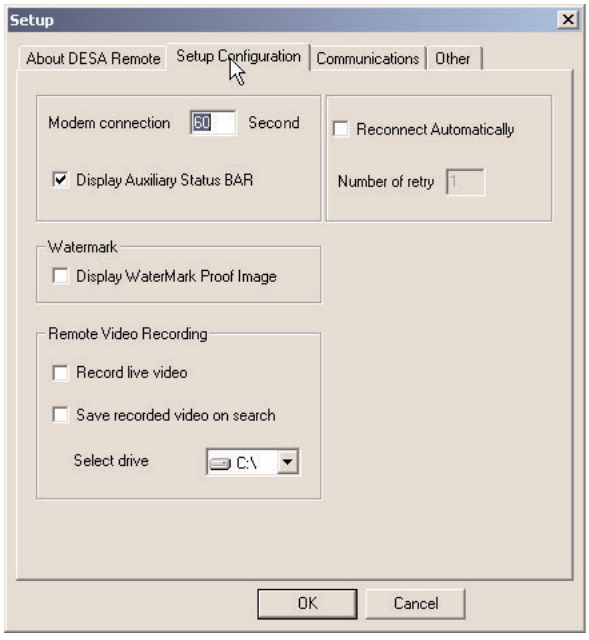
This setup is made while no connection is active for a DÉSA Server. There are four tabs in the Setup Window:

10.3.1.1 About DÉSA8 Remote

Provides a summary of the available disk storage, the nature of the computer and RAM storage, the Windows OS of the client and the version of the DÉSA8 Remote software.



10.3.1.2 Setup Configuration Tab



- **Modem connection**

Duration of modem connection.

- **Reconnect Automatically**

When checked this will cause the DÉSA8 to automatically re-establish the modem connection in the event it is lost. The number of retries setting will determine who many times it will attempt reconnection before quitting.

- **Display Auxiliary Status bar**

This will show or hide the Alarm and Auxiliary icons below the camera icons for a connected server.

- **Watermark**

This will display the text "Watermarked" in view of searched video on the remote client.

- **Remote Video Recording**

These settings determine whether or not live video is stored on the remote PC (for later searching or review), or simply streamed from the server.

A. Record Live Video

If this box is checked, then the video that is displayed during a remote connection will also be written to the local hard storage specified by the setting in Select Drive.

NOTE: This will consume disk space at a fairly rapid rate and may fill up local hard disk storage if left connected!

B. Save Recorded Video on Search

If this is checked, the video that is searched will be automatically written to the local storage (same as Record Live Video).

The video that is recorded live or in response to a search will be available for review through the Search button when the remote client is disconnected from all DÉSA8 Servers.

C. Select Drive

Choose the drive location to store the recorded video on. It is strongly recommended to choose a different drive than the system drive of the Remote Client to avoid filling up the system drive.

- **Setup Data**

The two buttons in this section allow for the export of setup data and the recovery. This is particularly useful in the event that the DÉSA8 must be recovered following an operational failure.

A. Export Setup Data

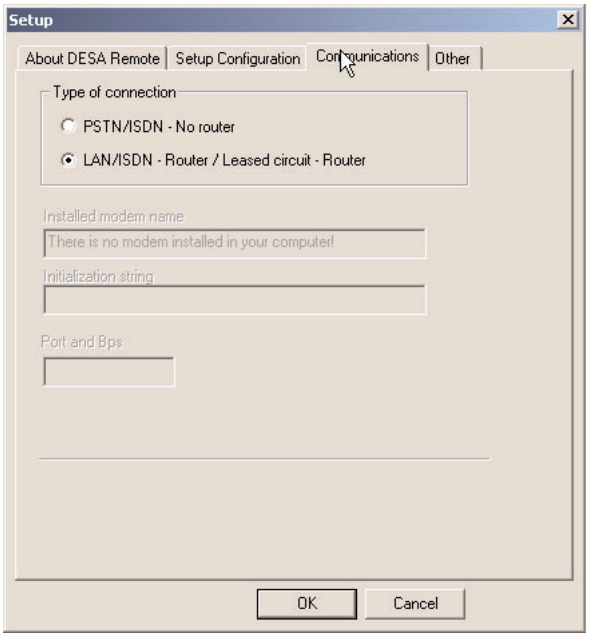
Write a file to the location specified in the Save As dialog box. It is best if this file is saved to a floppy, or other removable media (CD, USB drive) in order to protect it from the failure of the local hard disk drive.

B. Import Setup Data

This will reverse the export operation by reading the saved setup data from the stored file. It will be necessary to restart the Remote Client application after the Setup Data is restored in order for all setting to take effect.

NOTE: The use of this feature is only beneficial if the setup data is stored off of the DÉSA8 onto a removable storage media. The purpose of this is for disaster recovery! Protect yourself and your investment.

10.3.1.3 **Communications Tab**



- **Types of Connection**

Terms

PSTN	Public Switched Telephone Network
ISDN	Integrated Services Digital Network
LAN	Local Area Network

There are two types of connection possible for the DÉSA8 Remote client software.

1. **PSTN/ISDN**, which is the basic modem or ISDN connection. A dialup connection. PSTN (Public Service Telephone Network) is also referred to as POTS, or Plain Old Telephone Service and is the phone in all homes and businesses.

NOTE: Some businesses utilize local PBX's (phone system), which can complicate modem connections.

2. **Local Area network** (LAN) connection, which may also involve the use of an ISDN line, but more likely will utilize the newer DSL or cable modem services.

   If the PSTN/ISDN radio button is set, the settings in the bottom of the tab will be enabled. They are:

   A. Installed modem name
   this is automatically read from the Device Manager setting on your PC.

   B. Initialization string
   This will be automatically filled in from your modem configuration.

   C. Port and Bps
   This is the port assigned to the modem, by the computer and is automatically filled in.

   If the LAN/ISDN radio button is set, then the connection is made using whichever Local Area Network connection is active according to Windows. This is also the setting that would be used for DSL or Cable Modem connections.

- **A word or two about networks**

The DÉSA8 is a network device. A remote client inherently means that there is some form of network between the remote client PC and the DÉSA8 Server. But not all networks are created equal! The possible variations in configuration and policy that form networks are as vast as the stars in the sky. And while that may be a slight exaggeration, it is close to reality.

Firewall, Network Address Translation, Router, Bridge, modem, cable, DSL, ISDN, LAN, and WAN are all terms used to describe networks and each must be considered in turn when the user decides to try to connect a PC to a Desa to view the video remotely.

The easiest setup is when the DÉSA8 and the remote client are both on the same Local Area Network (LAN). Then it is as simple as setting the name and the IP address and clicking connect and viola` "Connected!"

Where it gets complicated is when attempting to connect to the DÉSA8 at a business location from a remote PC in an office or home. There may be a Cable/DSL router in the network configuration to allow for sharing of a connection. If so, it is important to turn off the firewall in the router setup. Each brand of Internet sharing router is somewhat different, but the firewall setup is usually an on/off setting.

IMPORTANT: Remember to re-enable the firewall setting after completing use of the DÉSA8 Remote Client. Leaving the firewall disabled may present a risk to the rest of the network.

- **For the Technical Support Staff**

Units are by default set for dynamic IP addressing but can be set to static within the configuration.

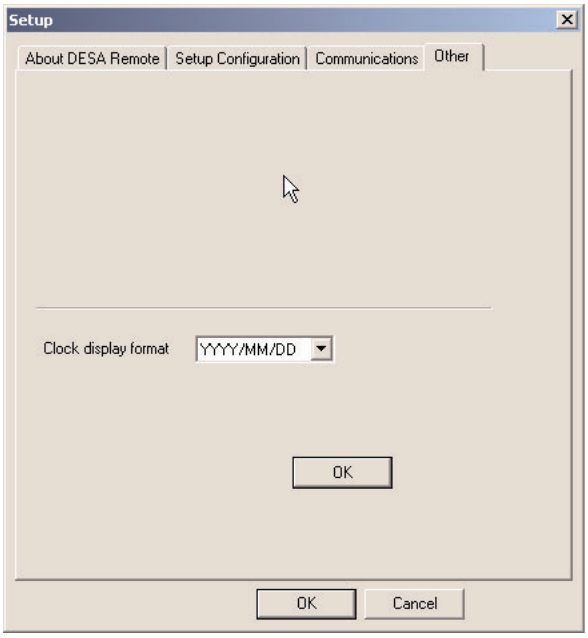
Firewalling
Units should work fine behind a firewall as long as the proper ports are forwarded to the unit. Remember that they are TCP ports and not UDP. Less Sophisticated firewalls should work fine if the ports are forwarded correctly.

Ports Used
Site: 8080(user inputs), 8081(video streaming)

Remote: 8083

P2P: 3001, 3005 (Two Way-Audio)

Remote Controlled Backup: 8090 (Center)



10.3.1.4 Other Tab

- **Clock Display format**

Changes the display of the date in the clock display according to the format select. The options are:

A. YYYY/MM/DD – Year/Month/Day

B. MM/DD/YYYY – Month/Day/Year

C. DD/MM/YYYY – Day/Month/Year

10.3.2 Date and Time Display

The date and time display on the remote client indicates the date and time of the PC. It should be the same as is displayed in the Taskbar in the lower right hand corner of your Desktop.

The Date Time clock may be different from the time displayed in the cameo while viewing Live video if the DÉSA8 Server is located in another time zone. Also, the time within the video display will show the time of the search or recorded video if you are searching on the local server or through archives stored on your PC.

10.3.3 Indicators

The camera, alarm and auxiliary indicators are displayed at the bottom of the main screen when the application completes a connection to a DÉSA8 server. Each indicator has two states. The normal state is a light blue; the selected or active state is a darker shaded blue. The darker shaded blue, for the camera indicators, shows which cameras have been selected for live display or search display. The darker shaded blue, for the auxiliary and alarm indicators shows that and alarm state is present, or an auxiliary relay has been activated.

Nothing selected

Cameras selected

10.3.4 Two Way Audio Feature

This feature allows the operator at the DÉSA8 Local Server to communicate verbally with an operator at a connected remote client. This requires that both sites have a microphone connected. This is done thought the audio connections (see audio connections on the DÉSA8 Local). The best communications is by using a headset for a PC, which provides both microphone and speakers in a hands free headset and prevents the operators from disturbing coworkers in the near vicinity.

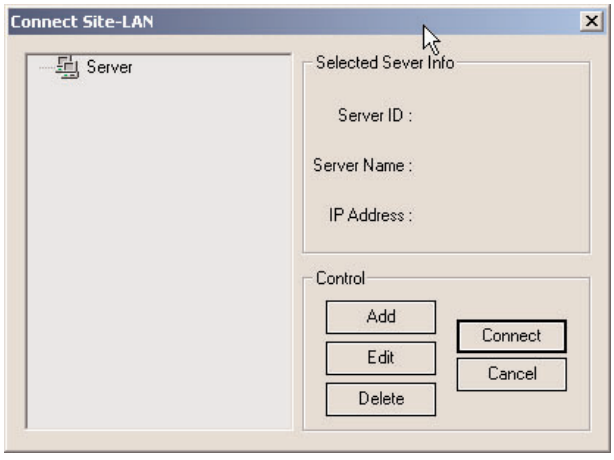
10.4 Making a Remote Connection

Open the DÉSA8 Remote client software by double clicking on the icon on your desktop. Click **Connect**

NOTE: The first time you will need to create a connection profile.

- **Creating a connection profile**

Click **Add**



Create Group by clicking **Group Add** and entering a text description of the group (e.g., MyStores, Parking Garage, etc.)

Enter the Local Code that matches the Local Code on the target DÉSA8 Server (this is found on the **Local Information** tab under **Setup**)

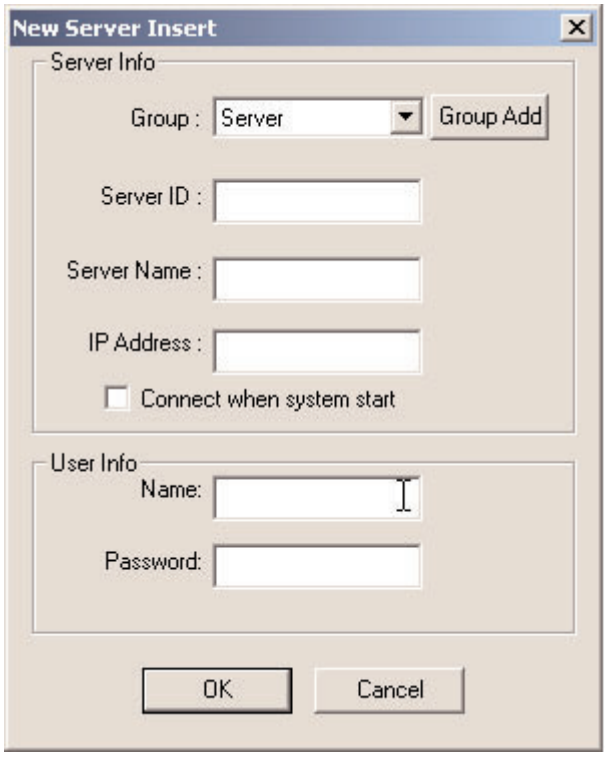
Enter a Local Name (this will be used as the name on the remote client and need not match the Local Code)

Enter the DNS Host of the DÉSA8 Server. This is an optional field that is used if the DÉSA8 Local Server is addressable by a web address (URL) such as myDesa.com.

Enter the IP address of the DÉSA8 Server. Required if the DNS Host field is left blank. This field will automatically be filled in when the DNS host address is resolved to an IP address.

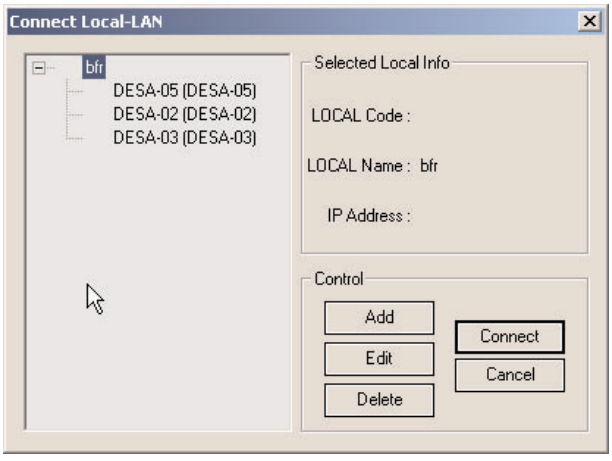
Enter the user name and password as assigned by the Administrator.

This adds a connection profile to the list under the group you have named. This also appears on the Main Screen in the window titled Server Info. To connect in the future, it is only necessary to double click on the Server Id in the Server Info window.

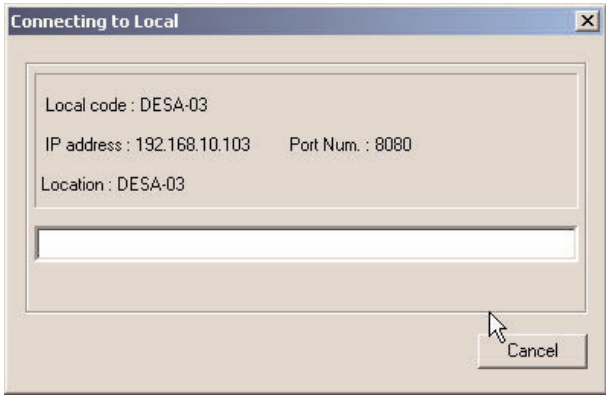


To connect, open the group by clicking on the plus sign, select the DÉSA8 server you want to connect to and click **Connect**.

The Connecting to Local window will open show the progress of the connection. If it is successful, then the window will disappear and the name of the profile and the IP address will appear in the connection list box in the lower left corner of the screen.



If the connection fails, a Connection Failed message box will appear, click OK to remove.



Setting Up Multiple Locals

Repeat steps 2 a through 2j as necessary for additional Local Servers and connect. There is a maximum connection limit of 16 DÉSA8 Local servers from one Remote Client. There is also a 16 Remote Client connection limit per Desa Local Server.

10.4.1 Multiserver Access

- **Connecting to Multiple Locals**
  Repeat the connection process but use another IP address!
- **Switching Between Locals**
  The lower left corner of the display shows a scrollable list. This list will contain each DÉSA8 to which the remote client is connected. As you scroll the list, the cameos for the streams associated with that Desa would show their timestamp in red characters. Other connected DÉSA8s will have their timestamp in white characters. The Stop, Live and Search buttons will apply to the DÉSA8 Server shown in the connection window.

10.4.1.1 Login to Multiple Locals

10.4.1.2 Displaying Multiple Cameras from Multiple Locals

10.4.2 Connected Display

10.4.2.1 Connected Locals Display

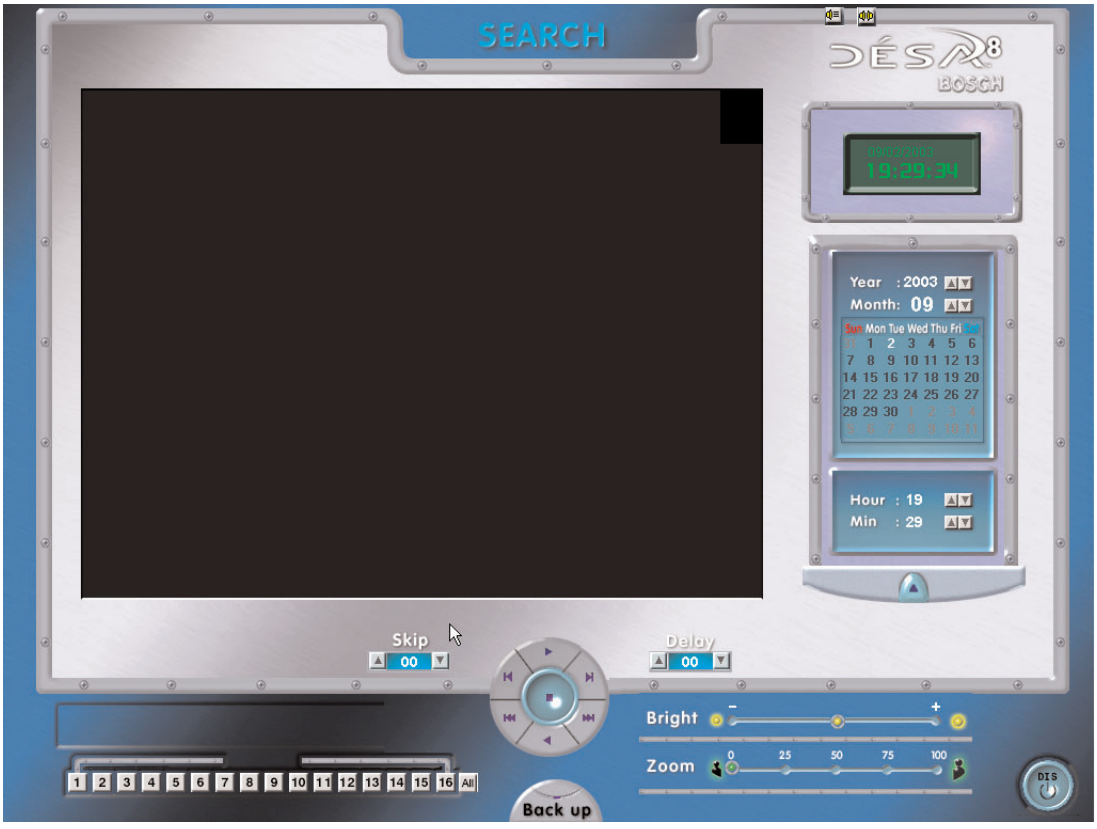
Once you have Connected to a Local DÉSA8 Server, you must login. Click the **Login** button and enter the User level and Password assigned to you. Click **OK**. The Login button will change to display Logout.

IN order to view video, select the cameras to view by clicking on each Camera indicator. Once the cameras have been selected, click the Live button to begin the display of the video. IN order to add cameras, you must first Stop the video and select the additional camera numbers and re-click Live.

The receive status bar will show the progress of the streaming video from the Local DÉSA8 to the Remote Client. It will flicker faster or slower depending upon the speed of the network connection.

10.4.2.2 Remote Searching of the Local

1. Click the **STOP** button to exit out of LIVE viewing.
2. Click the **SEARCH** button to enter the search menu shown below.

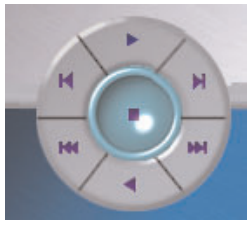


EXPLAIN using the DIS button to EXIT the SEARCH screen!

3. Select the Day of the Month to Search by clicking on one of the days displayed in RED. Then use the up/down arrow keys to select the HOUR and MINUTE desired.

4. Selecting Cameras to Search. Click on the cameras to view them. The buttons for the selected cameras will indent as shown in the screen below.

5. Playback, after the date, time, and cameras have been selected, click on the PLAY arrow to start playback.



6. Skip Frames, to increase the speed of playback. Change this to 1 to skip some of the frames.

7. Delay of Frames, to slow down the playback. Increasing the Delay time will slow down the playback.

10.4.2.3 Backing up Video from a Local

Only a single screen shot may be saved to a Floppy disk as either BMP or JPEG as follows:

1. Stop the playback.
2. Click on a single camera so that it is in the single full screen view.
3. Click on BACKUP, then the floppy disk symbol.
4. Click OK and the image currently displayed will be saved as either BMP or JPEG, depending on the selection in the SETUP screen of the Remote Viewer.

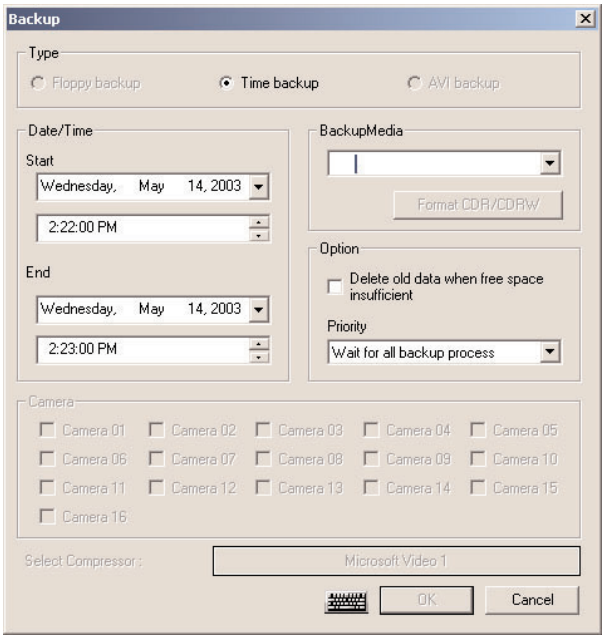
Backup a clip of video as follows:

NOTE: The video will be backed up in blocks of 67 MB, so the amount of time that this equates to will vary depending on the hardware settings on the local DÉSA8. Therefore, after the backup is complete the actual time frame of the video saved remotely will differ from the start and stop time entered below.

1. Stop the Playback.
2. Ensure that the video is being displayed in Multi-screen mode.
3. Click on the floppy disk symbol.
4. Select the **Start Date** and **Time**, then the **Stop Date** and **Time**.
5. Select the Backup Media, and then click on **OK**.
6. After a few seconds a small VCR tape symbol should appear at the top right hand side of the Monitor. Double click on this symbol to check on the progress of the backup.

AVI backup requires the following steps:

1. Save a full backup clip as listed above.
2. Log off and disconnect from the local DÉSA8, then click on the **SEARCH** button.
3. Select the Backup media where the video has been saved.
4. Select the desired Date and Time just like when connected to the DÉSA8.
5. Select the cameras to be viewed and then **PLAY**.
6. Stop the Playback and then click on Backup, then the floppy disk symbol.
7. Now select AVI backup and choose the individual camera that is to be saved in the AVI format.
8. Click OK, and the small VCR symbol will appear to indicate that the backup is in process. This is the only symbol of progress during an AVI backup.



10.4.2.4 Disconnecting from a Local

To disconnect from the Local Server:

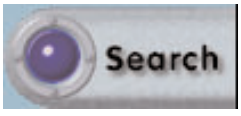
1. Click the **Stop** button. This will change its label to Live.
2. Click the **Disconnect** button
3. Click **OK** to the Do you want to Disconnect dialog box.

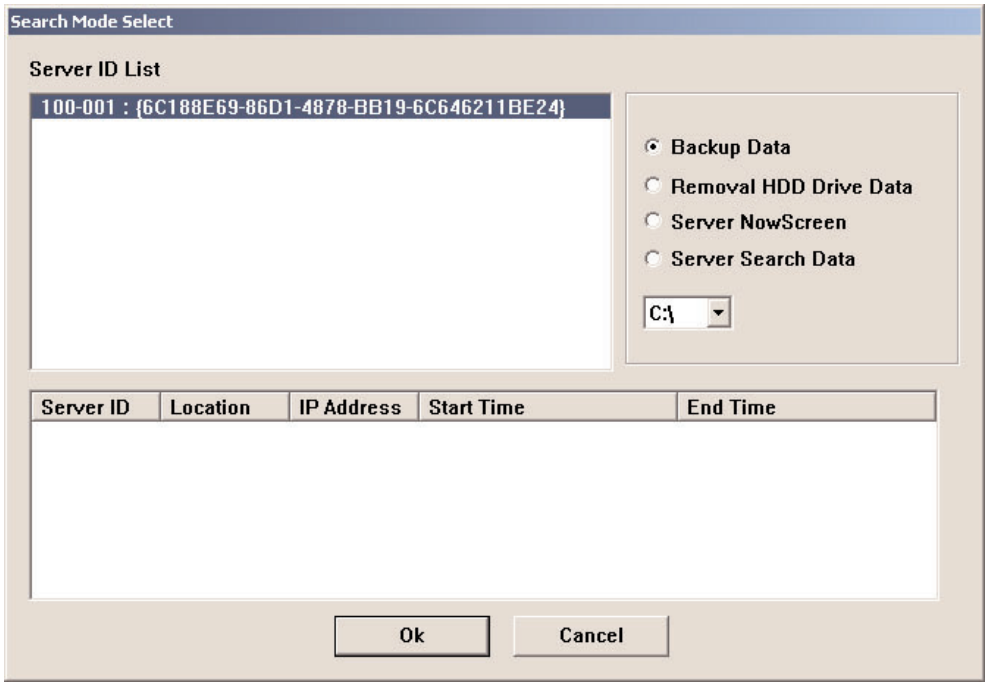
10.5 Searching Archived Video

10.5.1 Search

10.5.1.1 Search Button

Clicking the Search button will open the Search Screen.





10.5.1.2 **Calendar**

The calendar has several functions and indications. The first is the Year and Month selections. Then the Days of the Month and the Hour and Minutes of that day. The days of the month will be shaded three colors if the system has been recording for one day or more.

Calender Color Representation is as follows:

1. **Black**
   This represents no recorded video for that day.
2. **Red**
   This represents that there has been some type of recording for that day.
3. **Yellow**
   This represents that there is recording for that day, which is the current day, but another day is selected.
4. **White**
   White represents the current day recording and the current day is selected.

10.5.1.2.1 Search Screen Controls

None
Indicates that there has been nothing recorded.

10.6 Remote Administration

The following settings, on the server, can be modified using the Setup button while connected. Follow the same instructions as in the Local DÉSA8 Setup.

Hardware Tab

- Camera Enable
- Sensor Enable
- Control Enable
- External Monitor

Motion Tab

- Sensitivity (by camera)
- Motion as Alarm with temporal applicability
- Area Clear & Area Draw
- Individual Camera adjustment
- Setup for all cameras:
  A. Area Clear/Draw
  B. Screen Size (resolution)
  C. Quality
  D. Transfer Quality
  E. Color of Motion areas
- Full screen when motion, dwell time and No Full Screen
- Set Quad Rotation time
- Now Screen (captures current camera image and stores on remote client PC)

Schedule tab (all functions)

Server Information Tab (Server information only)

Server System Tab

- System restart time (automatic reboot of server)
- Emergency Phone, IP address or DNS
- Watermark
- Local Backup Schedule
- Live video stream bandwidth (network throttle)

Other Tab (Change screen division view at Server only)

Specifications

Model	DR081xx
Composite Output	Full Screen/Seq
Display (Max) IPS	120
Video Input-Cameras	1 to 8
Digital Audio Recording	1-channel
External Alarm	4/4 (Input/Auxiliary Output)
SVGA Display	1024 x 768
Standard HDD	120, 250, 500 GB
Memory	512 MB
Recording Speed	320 x 240 / 120 IPS
	640 x 480 / 120 IPS (maximum)

Average Record Days Disk format (GB) / Recording Speed (IPS)

DR081xx	Total IPS	Continuous Recording	15% Motion Recording
120 GB	8	60 days	360 days
120 GB	120	4 days	24 days
250 GB	8	120 days	720 days
250 GB	120	8 days	48 days
500 GB	8	240 days	1440 days
500 GB	120	16 days	96 days

NOTE: The above record calculations are examples based on continuous or motion at 15% recording, with 320 x 240 resolution, and an average of 3 KB file size at normal quality setting.

Electrical

Power Supply	Pentium-4 Power Supply
	Selectable 115-230 VAC 60-50 Hz
	380 W (400 W Max)
	It is highly recommended to us a UPS
	(Uninterrupted Power Supply)
Video	
Display Resolution	160 x 120, 320 x 240, 640 x 480 NTSC
Input	1 Vp-p composite video signal, 75 Ω
Composite Output	1 Vp-p composite video signal, 75 Ω
SVGA	One (1) DB 15
Audio	1-channel (line in, mic in, line out)
Connectors	
Video Input	BNC
Composite Video Output	RCA
Audio	1/8-inch mini phone jack
10/100 MB Ethernet	RJ-45
Alarms	
Alarm Inputs	Four (4) programmable N/O,
	N/C dry contacts
Alarm Outputs[1]	Four (4) programmable output relays
Image Compression	Proprietary temporal compression
	(Based on enhanced MJPEG and H.263
	compression technology)
Image Integrity	Proprietary Codec, time/date stamp,
	watermark authentication
VGA Card	AGP 64 MB RAM
Resolution/Average File Size[2]	
	160 x 120/1.5 KB; 320 x 240/3 KB;
	640 x 480/6 KB
PTZ Control	One (1) RS-422, one (1) RS-232[3]
	output supplied

NOTES:

[1]Specifications on back page

[2]Average file size based on temporal refresh

[3]LTC 8786/60 Series Data Converter is required for RS-232 conversion to biphase

NOTE: Biphase and Pelco® protocols have been tested and verified. All other protocols have yet to be tested.

Remote PC Requirements	
Processor	Pentium® III, Pentium 4, or AMD, 1 GHz minimum
Memory	256 MB minimum, 512 MB recommended for Drag and Drop feature
Video	Dedicated AGP Graphics Adapter, 32 MB RAM minimum (64 MB recommended), 32 bit color or better

CAUTION: Recommended graphics boards are ATI Radeon or nVidia gForce. The software does not support video cards based on SiS or Riva TnT2 chip sets. The system does not support onboard, integrated graphics adapter with shared memory.

Monitor	SVGA or XVGA set to 1024 x 768 resolution at 60 Hz refresh rate
Hard Disk	500 MB free disk space
Operating System	Windows 2000 Pro SP3 or Windows XP Pro
Browser	Internet Explorer 5.5 or greater

NOTE: When installing the Remote Client software, it is important to upgrade Windows Scripting to version 5.2 or greater. Versions below 5.2 cause installation issues.

Mechanical	
Tower Dimensions	208.3 x 467.4 x 435.6 mm (8.2 W x 18.4 D x 17.2 H in)
Tower Weight	11.3 - 20.4 Kg (25 – 45 lb) based on model
Environmental	
Temperature	Operating: 5° to 40° C (41° to 105° F)
	Storage: 5° to 40° C (41° to 105° F)
Relative Humidity	0 to 90%, noncondensing
Product Regulatory Compliance	
Electromagnetic Compatibility (EMC)	
	Complies with FCC Part 15 and ICES-003
Product Safety	Complies with UL and CSA Standards

Warranty	
	3 years
Bosch Accessories (Optional)	
	LTC 8786/60 – RS-232 to biphase converter
	S1363-BNC-RCA Converter

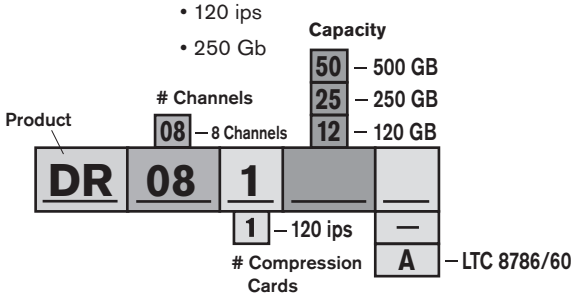
Approved Accessories (Third Party Manufacturers)	
	StarTech.com (Starview) KVMs
	Any UPS (Uninterruptable Power Supply)
	Norton AntiVirus™
	McAfee VirusScan

Ordering Information

Use the chart below to create your part number, based on this example:

DR 08 1 25:

- DÉSA8
- 8-channel
- 120 ips
- 250 Gb



DÉSA8 Part Numbering Structure

Windows® is a registered trademark of Microsoft Corporation.
Pentium® is a registered trademark of Intel Corporation.
Norton Antivirus™ is a trademark of Symantec Corporation.
McAfee is a business unit of Network Associates, Inc.

Bosch Security Systems, Inc.
850 Greenfield Road
Lancaster, PA 17601 EE.UU.
Tel: 800-326-3270
Fax: 1-717-735-6560
www.boschsecuritysystems.com

Robert Bosch GmbH
Geschäftsbereich
Postfach 10 60 50
70049 Stuttgart
Telefax (07 11) 8 11-12 34

Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven
The Netherlands
Tele +31 40 27 80000

© 2004 Bosch Security Systems GmbH
9498 961 45811 04-25 | Updated June 16, 2004 | Data subject to change without notice.

BOSCH